Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada

Directory of Arctic Science and Technology Research in Canada

First Edition

Répertoire canadien des recherches arctiques en science et en technologie

Première édition

Circumpolar and Scientific Affairs Directorate
Constitutional Development and Strategic Planning
Northern Affairs Program

Direction des affaires circumpolaires et scientifiques
Développement constitutionel et de la planification stratégique
Programme des affaires du Nord

Canada

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Minister of Indian Affairs and
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et du Nord canadien,
Ottawa, 1991.

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Foreword

The Circumpolar and Scientific Affairs Directorate is pleased to present the first edition of the *Directory of Arctic Science and Technology Research in Canada*. It has been produced in response to a growing demand, from within the Canadian scientific community and from scientists in other circumpolar countries, for information on Arctic research in Canada.

The primary objectives of the Directory are to enhance the knowledge of the current state of Arctic research in Canada; to facilitate the exchange of ideas and information among professionals, academics and northerners; and to promote international cooperation within the scientific community. It is intended for Canadian and international researchers in Arctic and cold regions science and technology seeking information on active projects in Canada's North. It will also offer students an overview of the wide range of scientific disciplines in Arctic research in Canada. As such, the Directory makes an important contribution to the Department's role of fostering knowledge in respect of Canada's polar regions.

I would like to acknowledge the following individuals for their efforts in compiling this directory. Special thanks go to Mr. Gary Hall, Mr. Gilles Binda, Mr. Doug Comegan, Mr. Mike Hamelin, Mr. Steven Bigras, Miss Rhonda Turner, Mr. Richard Bill, and Mr. Al Haller. I would also like to thank the individual researchers and the various organisations who responded to the questionnaire.

Harald W. Finkler
Director
Circumpolar and Scientific Affairs

Avant-propos

La Direction des affaires circumpolaires et scientifiques a le plaisir de présenter la première édition du *Répertoire canadien des recherches arctiques en science et en technologie*. Ce répertoire a été produit afin de répondre à un besoin croissant en matière d'informations sur les recherches effectuées dans l'Arctique canadien tel qu'exprimé par la communauté scientifique du Canada et des autres pays circumpolaires.

Nous croyons que ce répertoire donnera une meilleure idée de l'état actuel des recherches menées dans l'Arctique canadien, qu'il permettra une meilleure diffusion des idées et des informations entre les professionnels, les universitaires et les habitants du Nord, et qu'il aidera à la formation de liens plus étroits au sein de la communauté scientifique internationale. Ce répertoire s'adresse aux chercheurs canadiens et étrangers intéressés par la science et la technologie en régions arctiques et qui désireraient obtenir de l'information sur les recherches en cours dans le Nord canadien. De la même façon, il permet aux étudiants d'avoir un aperçu des différentes disciplines scientifiques ayant cours dans le Nord canadien. Ce répertoire rejoint l'un des principaux objectifs du ministère, à savoire la promotion des sciences et de la technologie pouvant contribuer à une meilleure connaissance du Nord canadien.

J'aimerais reconnaître l'effort que les personnes suivantes ont apporté à la préparation de ce répertoire. Des remerciements spéciaux vont à M. Gary Hall, M. Gilles Binda, M. Doug Comegan, M. Mike Hamelin, M. Steven Bigras, Mlle. Rhonda Turner, M. Richard Bill et M. Al Haller. J'aimerais aussi remercier les chercheurs et les diverses organisations qui ont repondu au questionnaire.

Harald W. Finkler
Directeur
Affaires circumpolaires et scientifiques

Introduction

The information contained in this Directory is a collation of the information acquired through responses to a questionnaire which was circulated widely throughout the Canadian scientific community in the fall of 1990. Over 8,000 questionnaires were sent to public and private sector research institutions, companies, government agencies, northern communities and many individual researchers in Canada and abroad. The information collected includes the names, addresses, telephone and facsimile numbers of the researchers, the disciplines and sub-disciplines in which the research is conducted, brief descriptions of the research, the fieldwork location and key words relating to the research.

While the majority of the entries pertain to research conducted in Canada's Arctic, a small number dealing with research that is applicable to Canada's North (e.g. work conducted in laboratories) has been included. In addition, where more than one research discipline has been indicated by the respondent, the more general one was used for the purpose of this directory.

The Directory is divided into four major sections:

1) research by discipline;
2) index by researcher name;
3) index by fieldwork location; and,
4) index by key words.

In the long term, the *Directory of Arctic Science and Technology Research in Canada* will be revised and expanded. It is anticipated that future editions of this Directory will be prepared on a biennial basis. Future editions will contain updated and new information on research being undertaken at that time. During the preparation of future editions, questionnaires will be

Introduction

Ce répertoire a été produit à partir d'informations recueillies au moyen d'un questionnaire. Au cours de l'automne 1990, plus de 8000 questionnaires ont été distribués parmi les membres de la communauté scientifique canadienne. Ainsi, plusieurs membres des instituts de recherche des secteurs public et privé, des agences gouvernementales, des communautés nordiques, et plusieurs chercheurs travaillant à titre individuel au Canada ou à l'étranger ont été consultés. Les données recueillies pour chaque recherche comprennent le nom, l'adresse, le numéro de téléphone et de télécopieur du chercheur, le domaine et sous-domaine de la recherche, un bref résumé de la recherche, le lieu géographique des travaux de recherche et quelques mots-clés.

La plupart des données utilisées dans notre répertoire ont trait à des recherches effectuées dans l'Arctique canadien. Toutefois, nous avons cru bon d'y inscrire quelques recherches d'intérêt nordique qui ne nécessitent pas nécessairement un séjour dans la région (e.g. travaux de laboratoires). De plus, dans le cas où les répondants nous ont fourni de l'information sur plus d'une recherche à la fois, nous avons retenu les renseignements correspondant à les recherche la plus importante.

Le répertoire est divisé en quatre sections principales:

1) recherche par domaine;
2) index selon le nom;
3) index selon le lieu de recherche; et
4) index selon les descripteurs.

Nous prévoyons rééditer le *Répertoire canadien des recherches arctiques en science et en technologie* à intervalles réguliers, soit à tout les deux ans. Les prochaines éditions comprendront une mise à jour des données et des recherches. Lors de la préparation de ces prochaines éditions, d'autres questionnaires seront distribués afin de permettre cette mise à

distributed to collect up-to-date information on active research. Readers wishing to receive a questionnaire for the second edition of the Directory should refer to the instructions on the last page of this publication.

jour. Prenez note que les lecteurs qui désirent se procurer une copie du questionnaire pour la deuxième édition du Répertoire, doivent remplir la section prévue à cet effet à la dernière page de la présente publication.

RESEARCH BY DISCIPLINE / RECHERCHE PAR DOMAINE

ADMINISTRATION AND LOGISTICS -- ADMINISTRATION ET LOGISTIQUE

	Bill, Richard E. Circumpolar Affairs Indian and Northern Affairs Room 907, 10 Wellington Street Ottawa, ON, Canada K1A 0H4	Hanbidge, Mr. Bruce M. Box 2120 Inuvik, NT, Canada X0E 0T0	Hart, Mr. William R. Atmoshperic Environment Services Environment Canada 4905 Dufferin Street Downsview, ON, Canada M3H 5T4
TELEPHONE:	(819)997-9595	(403)979-2828	(416)739-4649
FAX:	(819)953-0546	(403)979-2610	(416)739-4862
SUB-DISCIPLINES:	Protected areas, public participation, environmental ethics	Wildlife management	Atmospheric chemistry
DESCRIPTION OF WORK:	Coordination of activities between circumpolar countries; Canadian and Antarctic affairs.	Responsible for technical logistical and administrative support for the wildlife management advisory council (a government/native co-management body).	Logistics of personnel, cargo and construction projects; coodination of atmospheric science with other environmental research.
FIELDWORK LOCATION:		Western Arctic, N.W.T.	Alert; Eureka; Mould Bay
KEY WORDS:	arctic, antarctic, conservation, ethics, environment, public involvement, circumpolar coodination	wildlife management, environmental sciences	atmospheric pollution, toxics

	Hrycyk, Ms. Bonni B.A. Polar Continental Shelf Project Energy, Mines and Resources 6th Floor, 344 Wellington Street Ottawa, ON, Canada K1A 0E4	Lamson, Mrs. Cynthia Oceans Institute of Canada 5th Floor, 1236 Henry Street Halifax, NS, Canada B3H 3J5	White, Mr. Gary V. Inuvik Research Centre Science Institute of the N.W.T. P.O. Box 1430 Inuvik, NT, Canada X0E 0T0
TELEPHONE:	(613)990-1505	(902)494-3879	(403)979-3838
FAX:	(613)990-1508	(902)494-1334	(403)979-3570
SUB-DISCIPLINES:	Arctic logistics, policy and general expertise	Transportation	
DESCRIPTION OF WORK:	Logistics and coordination services to research scientists working throughout the Canadian Arctic; three bases (Resolute, Tuktoyaktuk and the Ice Island Research Station in the Arctic Ocean); land vehicles, navigation and positioning systems both coastal and inter-island areas, safe, efficient chartered transportation; special field equipment (on load); room and board; radio communications.	Policy analysis	The Inuvik Research Centre logistically supports physical and social sciences in the western Arctic.
FIELDWORK LOCATION:	Resolute; Tuktoyaktuk; Ice Island	Baffin Bay; Davis Strait; Lancaster Sound	Western Arctic
KEY WORDS:	research bases, services	ocean policy	Inuvik Research Centre, services

Wissink, Mr. Renee H.
Senior Park Warden
Ellesmere Island
National Park Reserve
Box 353, Pangnirtung, NT
X0A 0R0

TELEPHONE: (819)473-8829
FAX: (819)473-8612

SUB-DISCIPLINES:

DESCRIPTION OF WORK: Support of multidisciplinary research projects within the Ellesmere Island National Park Reserve; identification of environmental bench mark areas for study of global change, atmospheric pollution.

FIELDWORK LOCATION: Ellesmere Island, N.W.T.

KEY WORDS: parks, global change, pollution, support

AGRICULTURE -- AGRICULTURE

	Ceplis, Ms. Dinah D. Manitoba Agriculture 59 Elizabeth Rd. Thompson, MB, Canada R8N 1X4	Feddes, Dr. John J. R. Dept. of Agricultural Engineering Room 751, General Services University of Alberta Edmonton, AB, Canada T5R 1N4	Fincati, Robert C. Box 184 Livelong, SK, Canada S0M 1J0
TELEPHONE:	(204)677-6602	(403)492-0105	(306)845-2946
FAX:	(204)	(403)492-1071	(306)
SUB-DISCIPLINES:	Northern horticulture	Agricultural engineering	Agroforestry
DESCRIPTION OF WORK:	Providing support services to northern communities in the development of vegetable production and wild berry processing micro-enterprises, and community gardens.	A prototype light collection and transmission device has been developed to irradiate plants grown in an opaque insulated growth chamber. An array of fresnel lens and fiber optic cables collect and transmit sunlight to the plants. This system will conserve heat and reduce artificial lighting in the North.	Prepare integrated forestry and wildlife management plans; research alternative non-toxic agricultural methods.
FIELDWORK LOCATION:	Northern Manitoba (North of 53rd parallel plus East side of Lake Winnipeg)	Edmonton; Yellowknife	Turtle Lake (Saskatchewan); Arrow Forest District (British Columbia)
KEY WORDS:	Manitoba, northern, horticulture, vegetables, wild berries	fiber optics, irradiation, plants, horticultural crops	sustainable

	Hudson, Dr. Robert J. Department of Animal Science University of Alberta Edmonton, AB, Canada T6G 2P5	Revel, Dr. Richard R.D. Faculty of Environment Design University of Calgary Calgary, AB, Canada T2N 1N4	Romer, Mr. Mark J. Department of Biology McGill Unversity Montreal, Québec, Canada H3A 1B1
TELEPHONE:	(403)492-2111	(403)220-6605	(514)398-6471
FAX:	(403)492-4265	(403)	(514)398-5069
SUB-DISCIPLINES:	Wildlife management	Dendrochronology	Arctic horticulture
DESCRIPTION OF WORK:	Management of large herbivores (wild ruminants) for subsistence or commercial purposes.	Northern conservation areas, their use and establishment from a scientific, policy and management perspective; various aspects of resource development and its required planning and management; northern vegetable gardening.	The design and construction of greenhouses for arctic regions. Development of small-scale and commercial level greenhouses for vegetable production. Economic and horticultural studies related to arctic vegetable production.
FIELDWORK LOCATION:	Belcher Island, Fort Smith, N.W.T.	N.W.T.	Rankin Inlet, Pond Inlet, Iqaluit, Mould Bay, N.W.T.
KEY WORDS:	game ranching	arctic conservation, resource development, international biological programme (IBP), gardening	greenhouse, horticulture

Whiting, Mr. Peter G.
637 Fraser Avenue
Ottawa, ON, Canada
K2A 2R6

TELEPHONE: (613)728-8800
FAX: (613)233-4051

SUB-DISCIPLINES: Economics

DESCRIPTION OF WORK: Cost of agricultural production in the Yukon.

FIELDWORK LOCATION: Yukon

KEY WORDS: cost, agricultural production, Yukon

ARCHAEOLOGY/ANTHROPOLOGY -- ARCHÉOLOGIE/ANTHROPOLOGIE

	Albright, Mr. Donald M. Box 3, Site 6 Hythe, AB, Canada T0H 2C0	Andrews, Mr. Thomas D. Prince of Wales Northern Heritage Centre Government of the N.W.T. Yellowknife, NT, Canada X1A 1V7	Arcand, Bernard Département d'Anthropologie Université Laval Ste-Foy, PQ, Canada G1K 7P4
TELEPHONE:	(403)354-2913	(403)873-7688	(418)656-2453
FAX:	(403)	(403)873-0205	(418)656-2831
SUB-DISCIPLINES:	Biology, archaeology		
DESCRIPTION OF WORK:	Summer 1990, camp manager for Thule Eskimo archaeology on Somerset Island; Summer 1989, field assistant, Somerset Island archaeology, biologist on exploratory iceland scallop (Chlamys islandica) fishery in Hudson Strait.	Heritage resource management; Dene ethnoarchaeology.	Analyse des impacts sur l'environnement, et en particulier le milieu social et culturel, de tout projet de développement. Travail effectué dans le cadre des activités de la Commission de la qualité de l'environnement Kativik.
FIELDWORK LOCATION:	Northern Québec; Hudson Strait; Somerset Island	Mackenzie Valley, N.W.T.	Nouveau-Québec
KEY WORDS:	beluga, ringed seal, iceland scallops, age determination, walrus, marine mammals	heritage resource management, ethnoarchaeology	société et culture nordiques

	Asch, Dr. Michael I. Department of Anthropology 13-15 Tory Building University of Alberta Edmonton, AB, Canada T6G 2H4	Ashlee, Ms. Jette E. 97 Clarendon Avenue Ottawa, ON, Canada K1Y 0P8	Auger, Dr. Reginald Faculte des lettres Université Laval Ste-Foy, PQ, Canada G1K 7P4
TELEPHONE:	(403)492-5840	(613)724-1180	(418)
FAX:	(403)437-6366	(613)	(418)656-2019
SUB-DISCIPLINES:		History, Anthropology, Sociology, Biography	Historical archaeology, prehistoric archaeology.
DESCRIPTION OF WORK:	Development of constitutional government that incorporates collective rights of the Aboriginal People; articulation of hunting with industrial society among aboriginal peoples.	The history of the Copper Inuit told through the biography of Christine Klengenberg Jorgersen, a Danish free trader who was the first European to trade with the People. The family established strategic trading posts in Copper Territory, competed with the Hudson's Bay Company, and founded the village of Coppermine. The study encompasses genealogies through four generations which intersect with the major historical epochs of the Canadian Arctic region.	European and Inuit contact in Labrador; paleoeskimo prehistory in Newfoundland; historical archaeology at Frobisher Bay.
FIELDWORK LOCATION:	N.W.T.	Coppermine	Southern Labrador; Frobisher Bay; Northern Alberta
KEY WORDS:	self-government, economic development, hunting and trapping, Dene	Copper Inuit, coppermine, Klengenberg, free trader, Victoria Island, Coronation Gulf, Dolphin and Union Strait, "Blonde Eskimos"	culture, contact, Labrador, historical, european, Inuit

	Balikci, Dr. Asen Département d'Anthropologie Université de Montréal C.P. 6128, Succ. A Montréal, PQ, Canada M3C 3J7	Balkwill, Mrs. Darlene M. Zooarchaeology Section Canadian Museum of Nature P.O. Box 3443, Station D Ottawa, ON, Canada K1P 6P4	Beattie, Dr. Owen B. Department of Anthropology University of Alberta Edmonton, AB, Canada T6G 2H4
TELEPHONE:	(514)343-6565	(613)990-6410	(403)492-0132
FAX:	(514)343-2494	(613)952-9693	(403)
SUB-DISCIPLINES:		Zooarchaeology	Forensic anthropology
DESCRIPTION OF WORK:	Community studies, acculturation, ethnographic films, circumpolar comparisons.	Analysis of vertebrate faunal remains recovered from archaeological sites (prehistoric and historic); identification of bones and teeth found in stomach contents and scats as part of predatory feeding studies.	Investigation of historical events using forensic anthropology and archaeology.
FIELDWORK LOCATION:	Pelly Bay, N.W.T.; Northern Québec; Western Siberia (Kazin River)		Arctic Islands; Hudson Bay
KEY WORDS:	social change, circumpolar, film	faunal remains, bones, faunal analysis	forensic, arctic exploration

	Bertulli, Margaret M. Prince of Wales Northern Heritage Centre Yellowknife, NT, Canada X1A 2L9	Bielawski, Dr. Ellen E. Arctic Institute of North America University of Calgary 2400 Unversity Drive Calgary, AB, Canada T2N 1N4	Burch, Dr. Ernest S. Jr. Suite 106 3500 Market Street Camp Hill, PA, 17011-4355 USA
TELEPHONE:	(403)920-8084	(403)220-7515	(717)975-3590
FAX:	(403)873-0205	(403)282-4609	(717)
SUB-DISCIPLINES:		Philosophy of science, comparative epistemologies	Social anthropology, ethnohistory
DESCRIPTION OF WORK:	Archaeological excavation and field training for Northerners.	Comparison of northern science with Inuit indigenous knowledge; case study of the relocation of Arctic Québec Inuit to the High Arctic; ethnography of northern science.	Study of social organization and social history of arctic peoples, expecially Inuit.
FIELDWORK LOCATION:	Somerset Island; Devon Island; Arviat; Belcher Island; Repulse Bay	Arctic Québec; Arctic Islands	Arctic Canada
KEY WORDS:	excavation	Inuit knowledge, epistemology	social organization, social history, Inuit, Northern Athapaskans

	Christie, Mr. Laird Wilfrid Laurier University Waterloo, ON, Canada N2L 3C5	Cinq-Mars, Mr. Jacques Archaeological Survey of Canada Canadian Museum of Civilization Hull, PQ, Canada J8X 4H2	Desroches, Monique Faculté de Musique Université de Montréal C.P. 6128, Succ. A Montréal, PQ, Canada H3C 3J7
TELEPHONE:	(519)884-1970	(819)953-8889	(514)343-5877
FAX:	(519)	(819)	(514)343-5727
SUB-DISCIPLINES:	Socio-cultural anthropology, ecology, community organization, Worldvision		Ethnomusicologie
DESCRIPTION OF WORK:	Study of Native and Euro-Canadian concepts of time.	Archaeological investigations directed at elucidating the questions of both Late Pleistocene and Holocene human adaptations in the northwest boreal/arctic regions of North America, as well as Siberia.	Transcription de jeux de gorge (Terre de Baffin, Baie d'Ungava, Nouveau-Québec); mémoire de M.A., "Ce qui s'est écrit sur la musique des Inuit, un bilan critique", Faculté de Musique, Université de Montréal (1976-77).
FIELDWORK LOCATION:	Eskimo Point, Holman Island	Northwestern Boreal/Cordelleran Regions; Northern Yukon; Mackenzie Valley	Port Nouveau-Québec, Baie d'Ungava
KEY WORDS:	native world vision, time, Inuit social organization	beringia, archaeology, paleoecology, Gwichin, Northern Athapaskan	Jeux de gorge, Inuit, musique, music

	Feit, Dr. Harvey A. Department of Anthroplogy McMaster University Hamilton, ON, Canada L8S 4L9	Francis, Dr. Peter D. Department of Archaeology University of Calgary Calgary, AB, Canada T2N 1N4	Friesen, Max Department of Anthropology McGill University 855 Sherbrooke St. West Montreal, PQ, Canada H3A 2T7
TELEPHONE:	(416)525-9140 ext 3904	(403)220-5227	(514)398-4302
FAX:	(416)527-0100	(403)	(514)398-7476
SUB-DISCIPLINES:	Human ecology		Inuit prehistory, peopling of Beringa, zooarchaeology
DESCRIPTION OF WORK:	Assessment and histories of wildlife management science in northern settings; studies of indigenous forms of knowledge of the environment.	Prehistoric archaeology; prehistoric technology; subsistence; settlement systems analysis; exchange systems analysis; origins and development of bow technology.	Current research seeks to document western Mackenzie Inuvialuit prehistory and history, and to examine cultural stability and change resulting from interaction between Inuvialuit and Euro-Americans.
FIELDWORK LOCATION:	Québec; N.W.T.; Alaska		Herschel Island, Yukon
KEY WORDS:	human ecology, cultural ecology, wildlife management, native science, indigenous science	prehistory, traditional technology, exchange systems	Mackenzie Inuit, Thule Eskimo, Inuit-European contact, Beringia

	Gotthardt, Dr. Ruth M. Department of Tourism Government of Yukon Whitehorse, YT, Canada Y1A 1K9	Graburn, Dr. Nelson Department of Anthropology University of California Berkeley, CA 94720 USA	Greer, Ms. Sheila C. Canadian Circumpolar Institute 215 Central Academic Bldg. University of Alberta Edmonton, AB, Canada T6G 2E9
TELEPHONE:	(403)667-5983	(415)642-2120	(403)433-2546
FAX:	(403)	(415)643-8557	(403)492-1153
SUB-DISCIPLINES:		Cultural and social anthropology, native art history	Archaeology, oral history, native history
DESCRIPTION OF WORK:	Archaeological resource management including assessment, mitigation and research.	Study of the artistic, social, cultural, ethnic, political, ideological aspects of Native Canadian Arts, especially Inuit; Eskimo arts of Greenland, Alaska, Siberia; cultures and culture change of circumpolar people (Americas, USSR, Scandinavia); similarly for sub-arctic peoples.	Archaeological and oral history research on traditional native land use; the anthropology of northern heritage policies and practices.
FIELDWORK LOCATION:	Yukon	Arctic Canada; Alaska	Yukon
KEY WORDS:	mitigation	Inuit, circumpolar peoples, art, cultural change	oral history, native history

	Hall, Mr. Mark E. 3322-6400 Christie Ave. Emeryville, CA 94608 USA	Hanks, Mr. Christopher C. Parks Establishment Office Canadian Parks Service Box 1166 Yellowknife, NT, Canada X1A 2N8	Helmer, Dr. James W. Department of Archaeology University of Calgary Calgary, AB, Canada T2N 1N4
TELEPHONE:	(415)653-5681	(403)873-8477	(403)220-7543
FAX:	(415)	(403)873-8185	(403)282-9567
SUB-DISCIPLINES:			Arctic prehistory
DESCRIPTION OF WORK:	Viking settlements in the west. Archaeometallurgy: metallurgical study of viking iron work.	Ethnoarchaeology and Ethnography among the Slavey of the Mackenzie Basin; ethnographic research on the impact of television among the Cree of northern Manitoba.	Research on early and late paleo-eskimo subsistence and settlement adaptations.
FIELDWORK LOCATION:		Mackenzie Mountains; Mackenzie Valley; Great Bear Lake; Canol Road	Devon Island, Little Cornwallis Island, N.W.T.
KEY WORDS:	vikings, archaeometallurgy	traditional knowledge	prehistory, Dorset, settlement patterns, subsistence

	Janes, Dr. Robert R. Glenbow Museum 130 - 9th Avenue, S.E. Calgary, AB, Canada T2G 0P3	Kaplan, Dr. Susan A. Peary-MacMillan Arctic Museum Bowdoin College Brunswick, ME, 04011 USA	Keenleyside, Ms. Anne Department of Anthropology McMaster University Hamilton, ON, Canada L85 4L9
TELEPHONE:	(403)264-8300	(207)725-3289	(416)525-9140 ext.4423
FAX:	(403)265-9769	(207)725-3123	(416)
SUB-DISCIPLINES:	Ethnoarchaeology		Physical anthropology
DESCRIPTION OF WORK:	The focus of this research is a group of Slavey Dene. There are several objectives, including the ongoing ethnographic documentation of a northern hunting camp. The strenghtening of archaeological inference in the Subarctic. The evaluation of several cross-cultural hypotheses concerning the spatial patterning of artifacts and a reconsideration of Mackenzie Basin culture history.	The study of the effects of environmental change and cultural contact on Inuit of Alaska, Canada and Greenland; the study of the Robert E. Peary, Donald B. MacMillan and Robert A. Bartlett arctic expeditions.	A paleoanthropothological analysis of forty historic Inuit skeleton from a whaling station in order to reconstruct the health of the native population during the period of intensive whaling in Cumberland Sound.
FIELDWORK LOCATION:	Mackenzie Valley, N.W.T.	Labrador	Cumberland Sound, Baffin Island
KEY WORDS:	ethnoarchaeology, Northern Athapaskan, Dene	cultural contact, arctic expeditions	Inuit, historic, burials, health

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	Kennedy, Dr. John C. Department of Anthropology Memorial University of Newfoundland St. John's, NF, Canada A1C 5S7	Koolage, Dr. William 452 University College University of Manitoba Winnipeg, MB, Canada R3T 2M8	Kritsch, Ingrid D. Department of Anthropology 13-15 Tory Building University of Alberta Edmonton, AB, Canada T6G 2H4
TELEPHONE:	(709)737-8856	(204)474-9120	(403)492-3879
FAX:	(709)	(204)261-0021	(403)492-7196
SUB-DISCIPLINES:	Ethnography	Anthropology	Social and cultural anthropology
DESCRIPTION OF WORK:	Ethnographic and archival research on southeast Labrador; ethnographic research on ethnicity in northern Labrador.	Arctic and subarctic ethnography. Native language interpretation.	The documentation and analysis of the relationship between the domestic and wage economy at the household and community levels in a small, traditional Dene community; of particuler interest are the roles and relations between Dene women and men as defined traditionally and as reflected in today's mixed economy.
FIELDWORK LOCATION:	Cape Charles; Lodge Bay; Makkovik	Arctic Canada; subarctic Canada	Trout Lake, N.W.T.
KEY WORDS:	Labrador, ethnicity, communities	language	Athapaskans, Slavey, gender roles, domestic economy, wage economy

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SUB-DISCIPLINES:	Sciences de l'environnement, études d'impacts	Archaeology, ethnohistory	Heritage, underwater archaeology
DESCRIPTION OF WORK:	Adoptions des enfants chez les Innus du Labrador. Études d'impacts projets Baie James; Projet Grande Baleine.	Archaeological and ethnohistorical research with Innu (Naskapi-Montagnais) and Inuit people in Labrador.	Heritage resource management-assessments and mitigations for archaelological sites including excavation and GIS data base mapping; cultural landscape analyses; oral histories and feasibility studies; cemetery (marked and unmarked) disinterment and reinterment.
FIELDWORK LOCATION:	Labrador; Nouveau-Québec	Labrador	
KEY WORDS:	adoption, enfants	Innu, Inuit	oral histories, cemetries

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FAX:	(501)575-5055	(403)454-6629	(403)282-4609
SUB-DISCIPLINES:		Subarctic ethnohistory and material culture; modern social formations	High Arctic prehistory, Thule culture prehistory, polar Eskimo ethnography
DESCRIPTION OF WORK:	Arctic human ecology; Thule eskimo prehistory; Inuit use of bowhead whales; metal use among prehistoric native groups.	Scots and Orcadian influences on the development of fur trade and native societies and material culture inventories in western Canada through the agency of the fur trade, with research on-going in Fort Chipewyan and Janvier in northern Alberta and various regions of Scotland.	Archaeological investigation of the development of Thule culture in the eastern high arctic; analysis of changes in Thule culture subsistence strategies and settlement patterns throughout the Thule culture continuum.
FIELDWORK LOCATION:	Central Canadian Arctic	Northern Alberta; Orkney Islands, Scotland	Smith Sound Region, Ellesmere Island
KEY WORDS:	bowhead whales, Thule Eskimos, adaptation	material culture, fur trade	Thule culture, Inuit prehistory, faunal analysis, tool tradition

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FAX:	(819)953-9382	(514)	(819)
SUB-DISCIPLINES:		Anthropologie, histoire, éducation	
DESCRIPTION OF WORK:	Reconstruction of the history of aboriginal peoples of arctic North America and of past environments in the region.	Histoire algonquienne de la péninsule Québec-Labrador; histoire de la Baie James au 20ième siècle; principles de changement social en contexte colonial.	Archaeological investigation and analysis focusing on the western Arctic coast and on Eskimo (including Inuit) prehistory.
FIELDWORK LOCATION:	High Arctic Islands	Baie James; Baie d'Hudson	Tuktoyaktuk Peninsula; Eskimo Lakes; Cape Bathurst; Mackenzie Delta
KEY WORDS:	Inuit, Paleoeskimo	changement social, algonquin, social change	Eskimo prehistory, cultural resource management, faunal analysis

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SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Herschel Island cultural study to obtain an Inuvialuit perspective on the history of Herschel Island; interviews with Inuvialuit Elders. Fouilles archéologiques du site pita (KcFl-l), situé près du village Inuit d'Ivujivik (au Nouveau-Québec). Il s'agit d'un site d'occupation pré-Dorsetienne. Avec l'aide de six assistants Inuit, cinq structures d'habitation furent fouillées durant les mois d'août et septembre 1990. D'abondants vestiges lithiques et fauniques furent trouvés.	Travail à identifier les ressources archéologiques dans la vallée du fleuve Mackenzie afin de comprendre les schèmes d'établissment dans le temps. Ces donnés serviront à la rédaction de lignes directives visant la protection de ces ressources.	Implantation humaine préhistorique dans l'Arctique québécois.
FIELDWORK LOCATION:	Aklavik; Inuvik; Tuktoyaktuk; Yukon North Slope; Herschel Island; Ivujivik (Nouveau-Québec)	bas Mackenzie, Territoires du Nord-Ouest	Ungava
KEY WORDS:	cultural study, oral history, Inuvialuit Elders, Ivujivik, Pré-Dorsétien	gestion des ressources archeologiques	esquimaux, paléoesquimaux, arctique oriental

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SUB-DISCIPLINES:	Community economic development	Cultural and social anthropology, northern development	Community-based economic and social development
DESCRIPTION OF WORK:	Culturally appropriate alternative strategies for locally and regionally directed economic/community development, including traditional pursuits, new uses of traditional resources, new use of natural resources, transfer of local and regional services to local and regional administration.	The effects of community based tourism in Pangnirtung, N.W.T.; comprehensive evaluation of tourism development in this community using participatory methods.	Applied research interests include mediation, impact assessment, compensation regimes, the use of traditional knowledge in project planning, community based participatory action research, and land claims.
FIELDWORK LOCATION:	Mushkeyowuk Region (west coast of James Bay lowland)	Pangnirtung, N.W.T.	Western Arctic
KEY WORDS:	Cree, community development, traditional knowledge	Inuit, tourism development	social justice, community development, land claims

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SUB-DISCIPLINES:	High arctic prehistoric research	Paleoecology, paleoclimatology	Modern native culture
DESCRIPTION OF WORK:	Archaeological excavations of high Arctic prehistoric sites spanning 4000 years of human occupation. A study of the cultural and ecological elements that have shaped the lives of the high Arctic hunting groups through time.	Quaternary stratigraphy and paleoecology of Alaska and Yukon, pollen analysis of arctic sites.	Travel in remote areas particularly Indian and Inuit settlements to determine the impact of modern technology and civilization
FIELDWORK LOCATION:	Bache Peninsula region, Ellesmere Island	Alaska; Yukon; Norway	Yukon; N.W.T.
KEY WORDS:	paleoeskimo, neoeskimo	paleoclimate, quaternary, Beringia	

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FAX:	(416)978-8854	(613)788-4062	(819)
SUB-DISCIPLINES:	Social anthropology	Ethnohistory, socio-political development	Prehistoric archaeology, zooarchaeology
DESCRIPTION OF WORK:	Research into subarctic and arctic issues concerning social organization of land utilization; documentation of Ojibway and Cree land utilisation, kinship structure, political leadership and socio-economic restructuring in the latter half of 20th century; census material from the 19th century on social groupings in northwestern Ontario.	Ethnographic, historical, archival, and questionnaire study of problems of ethnic relations, occupational, participation, and community development; assessment of consequences of policy and of administrative organization for native peoples, especially in the western Arctic; emphasis on ethnic relations and patterns of social stratification.	Analysis of prehistoric settlement and subsistence systems; culture history, culture ecology.
FIELDWORK LOCATION:	Northwestern Ontario	Western Arctic; Mackenzie Delta	Baffin Island
KEY WORDS:	land utilisation, kinship, Cree, Ojibway, political organization, aboriginal rights	ethnic relations, community development	native culture, subsistence

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SUB-DISCIPLINES:	Local history of fur trade era 1915 to 1960's	Inuit social organization, archaeology, Inuit ideology	
DESCRIPTION OF WORK:	Living with the last few families of Inuit people, who still prefer to live on the land rather than in towns like the majority of Inuit; traditional Inuit living methods, travelling, hunting practices, language, folklore, material culture, philosophy.	Analysis of the social composition of Cumberland Sound local groups (1929-1970), and subsequent construction of a new theory of Inuit social organization and interpretation of Netsilingmiut, Iglulingmiut and Copper Inuit social structure.	The investigation of the cultural history of pre-contact arctic Canada; study of prehistoric adaptations (Paleoeskimo and Thule Inuit cultures) on Ellesmere Island and Axel Heiberg Island.
FIELDWORK LOCATION:	Coronation Gulf; Bathurst Inlet; S.E. Victoria Island; Queen Maud Gulf	Cumberland Sound, Baffin Island	Queen Elizabeth Island; Ellesmere Island; Axel Heiberg Island
KEY WORDS:	Copper Inuit, traditional, hunting	Inuit, social organization, local group composition	Inuit, Paleoeskimo

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FAX:	(519)661-3868	(819)953-9382	(416)
SUB-DISCIPLINES:	Physical anthropology, human biology, human population genetics		Inuit ethnobotany
DESCRIPTION OF WORK:	Studies to delineate the etiology of non-insulin dependent diabetes mellitus (NIDDM) in Dogrib Indians of the N.W.T.; genetic mechanisms (complex segregation analysis; measured genotype analysis) is being undertaken; environmental factors (dietary change, physical fitness) also examined; study is both longitudinal and cross-sectional in design.	Field work and analysis to understand the prehistoric culture history and adaptations in the canadian western Arctic.	Uses of indigenous plants; Inuit food systems; persistence and change; Inuit shelter-form and function.
FIELDWORK LOCATION:	N.W.T.; Lac La Martre; Snare Lake; Rae Lakes	Victoria Island; western Arctic coast	
KEY WORDS:	diabetes mellitus, Indians, genes	adaptations	Inuit, food, shelter

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SUB-DISCIPLINES:	Prehistory of circumpolar Eurasia	Ecological anthropology	
DESCRIPTION OF WORK:	Subsistence patterns of boreal Siberia during the Holocene: A comparative approach.	Reindeer management, walrus and narwale ivory, caribou and polar bear.	The language and culture of Eskimo peoples.
FIELDWORK LOCATION:	Central Siberia; Arctic Canada	Soviet north; Greenland; arctic Canada; Alaska	N.W.T.; Saskatoon; Saskatchewan
KEY WORDS:	boreal forest (taiga), holocene subsistence	reindeer, walrus, narwhal, polar bear	language, eskimo

ARCHITECTURE -- ARCHITECTURE

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SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Expertise pour expliquer les causes de la formation de glace dans les entretoits des maisons renovées d'un village cris de la Baie James; solutions pour correctifs.	Architectural design and planning of facilities.	Cold climate building design, project management and environmental issues.
FIELDWORK LOCATION:	Chissasibi	Yellowknife, N.W.T.	Pond Inlet, N.W.T.
KEY WORDS:	enveloppe du bâtiment	building design	building design

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FAX:	(514)432-8470	(403)245-9701	(403)284-4399
SUB-DISCIPLINES:	Conception de bâtiments bioclimatiques	Building design, transportation	Building science
DESCRIPTION OF WORK:	Système de bâtiment démontable, léger et modulaire; une fondation géodésique adaptée au pergélisol et dont la configuration spéciale appuie les contours d'une coque arrondie superisolante de forme variable, déterminable par les occupants.	Northern building technology and site design; seniors and disabled access in northern cities of Canada; pedestrian safety in winter.	Investigate building deterioration in native housing and other buildings resulting from high indoor humidity and resulting condensation and freezing; potential for energy conserving designs, solar heating.
FIELDWORK LOCATION:			Yellowknife; Snowdrift; Slave Lake; Wabasca; Fort Smith; N.W.T.
KEY WORDS:	bâtiment, bioclimatique, efficacité énergétique, pergélisol	site design, safety, disabled	condensation, energy, housing, humidity, solar

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FAX:	(403)873-0230	(403)873-3816	(403)668-8890
SUB-DISCIPLINES:			Building sciences
DESCRIPTION OF WORK:	Research and technical design of buildings; setting standards and monitoring results.	Building design and research arctic regions.	Indoor quality, environmental impact housing development in northern and remote regions, permafrost foundations structural research, social concerns and problems due to inadequate, improperly designed housing for natives and non-natives.
FIELDWORK LOCATION:	N.W.T.		Yukon College campus, Whitehorse
KEY WORDS:	construction, building design	building design	building design, permafrost

BIOLOGY -- BIOLOGIE

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FAX:	(613)990-6451	(416)	(306)975-4089
SUB-DISCIPLINES:		Behavioural ecology	Wildlife management, avian ecology, waterfowl nutrition
DESCRIPTION OF WORK:	The study of plants, particularly grasses in the canadian Arctic; collection of specimens for the Canadian Museum of Nature Herbarium and for fundamental botanic research; the beginnings of a transplant garden in Iqaluit and seed testing trials in Inuvik, Igloolik and Iqaluit.	To examine the reproductive strategies used by two subspecies of meadow vole, Microtus pennsylvanicus, one from N.W.T. and the other subspecies from southern Ontario; various field measurements and laboratory studies have been conducted to determine the extent of parental care by both the male and the female, survivorship of young, gestation and weaning periods and growth rates of offspring.	Ecological relationship between feeding conditions on prairies and arctic productivity of geese.
FIELDWORK LOCATION:	Inuvik; Igloolik; Iqaluit	Rankin Inlet, Arviat, N.W.T.	Queen Maud Gulf Migratory Bird Sanctuary, N.W.T.
KEY WORDS:	grasses, seed testing	meadow vole, reproductive strategies, parental care	geese, feeding ecology

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SUB-DISCIPLINES:	Plant physiological ecology	Evolution and historical, biogeography of arctic animals	Wildlife management
DESCRIPTION OF WORK:	Ability of arctic plants to utilise different nitrogen forms, interaction between nitrogen metabolism and respiration in arctic plants.	Molecular genetic analyses of geese, shorebirds and lemmings to determine how historical events in the Arctic have influenced the evolution of circumpolar breeding species, and their specific adaptations to arctic environments.	Strategies to counteract disturbance factors for wildlife species and their habitats.
FIELDWORK LOCATION:	Devon Island, N.W.T.	High Arctic.	Northern Manitoba
KEY WORDS:	nitrogen, metabolism, respiration, plant growth	adaptation, historical, geese, shorebirds, lemmings	wildlife, habitat disturbance

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FAX:	(613)995-1823	(32)	(206)685-1728
SUB-DISCIPLINES:	Systematics, biogeography	Ecology and paleoecology of testate amoebae and diatoms	Plant ecology
DESCRIPTION OF WORK:	Systematics, ecology, diversity of arctic and subarctic oribatida (mites) living primarily in soil and litter and are important in decomposition nutrient cycling and soil formation; biogeography of oribatids of beringia.	Research on the biogeography, ecology and community, structures of diatoms and testate amoebae in the Arctic; paleoecological studies of peat layers by means of testate amoebae analysis.	Study of arctic ecosystems - how they develop and function; ecophysiology of arctic plants, patterning of plant communities.
FIELDWORK LOCATION:	Northern Yukon	Devon Island, N.W.T.; Greenland, Svalbard	Truelove Lowland, Devon Island, N.W.T.
KEY WORDS:	oribatida, soil mites, nutrient cycling, taxonomy	testate amoebae, diatoms, peat	ecosystems, plants

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SUB-DISCIPLINES:	Population ecology	Regulation ecology, wildlife management, ecology, mammalian ecology, behavioural ecology	Botany, phytogeography, bryology
DESCRIPTION OF WORK:	Dispersal as a biological phenomenon; vehicles used: grouse, ground squirrels, and gastropods.	The relationship between environment and genetics on individuals reproductive success of red squirrels; the effects of predation on population dynamics and community organization of boreal forest vetebrates.	General phytogeographic, taxonomic and ecological studies on mosses and liverworts of Arctic and boreal regions; bryogeography as related to quaternary glacial history.
FIELDWORK LOCATION:	R.B. Miller Biological Station, (west of Turner Valley, Alberta)	Kluane Lake, Yukon	Ellesmere Island; Labrador
KEY WORDS:	dispersal, grouse, ground squirrel, gastropods	population, management, behaviour	mosses, liverworts

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SUB-DISCIPLINES:	Wildlife management, waterfowl research	Wildlife biology	Océanographie biologique et physique
DESCRIPTION OF WORK:	Research on reproductive ecology of northern waterfowl, particularly geese; studies of waterfowl harvest in N.W.T., particularly in spring; attempting to relate reproductive success of geese to environmental factors e.g. weather, lemming cycles, and to age, nutritional status etc.	Effects of habitat change and disturbance on woodland caribou.	Dynamique des populations de microflore des glaces; zooplancton et ichtyoplancton sous le convert de glace; océanographie physique.
FIELDWORK LOCATION:	Coppermine; Gjoa Haven; Western Arctic	Northern Alberta	
KEY WORDS:	waterfowl, geese, reproduction, survival	caribou, timber harvest, habitat disturbance	zooplancton, ichtyoplancton

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FAX:	(403)289-9311	(403)979-2418	(204)983-6285
SUB-DISCIPLINES:	Biosystematics and ecology	Wildlife management	
DESCRIPTION OF WORK:	Understanding the evolutionary strategies and patterns of variations in polyploid species. Stellaria and Antennaria species; origin and evolution of phenotypic plasticity in plants.	Grizzly bear population estimate and female productivity study in the Anderson-Horton River area; wolf - prey relationships focusing on wolf reproduction, movements, survival, predation rates and genetics; emphasis on wolf ecology and relationships to caribou.	Molecular population genetics of Arctic marine mammals including beluga whale, narwhal, and walrus.
FIELDWORK LOCATION:	Alaska, Yukon, N.W.T., Greenland, Norway, Sweden	Inuvialuit Settlement Area, Inuvik Region, N.W.T.	
KEY WORDS:	phenotypic plasticity, Stellaria, Antennaria	grizzly bear, population, survival, wolf, predation, reproduction	marine mammals, DNA, population genetics

	Cleator, Ms. Holly J. Dept. of Fisheries and Oceans 501 University Crescent Winnipeg, MB, Canada R3T 2N6	Coates, Dr. Kathryn A. Invertebrate Zoology Royal Ontario Museum 100 Queen's Park Toronto, ON, Canada M5S 2C6	Coleman, Dr. Richard R.W. Ph.D. Professor Emeritus of Science Department of Biology Upper Iowa University Fayette, Iowa, 52142 USA
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FAX:	(204)983-6285	(416)586-5863	(319)
SUB-DISCIPLINES:	Marine mammal population ecology and behaviour	Invertebrate zoology, systematics, evolution	Plant-invertebrate ecology
DESCRIPTION OF WORK:	Field studies aimed at understanding the population ecology of arctic marine mammals using a variety of techniques, population census and survey, live- capture, tagging and trapping, and behavioural observation (visual and acoustic).	Systematics, zoogeography and pollution ecology of enchytraeid oligochaetes.	Plant and invertebrate surveys in Alaska and northern Canada; Surveys in the Northwest Territories are planned for the summers of 1995 and 1998.
FIELDWORK LOCATION:	High Arctic	Sub-Arctic; Northern Ontario; Prince William Sound, Alaska; James Bay	Alaska; Yukon; N.W.T.
KEY WORDS:	marine mammals, population	oligochaetes, pollution	plants, invertebrates, ecological analysis

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SUB-DISCIPLINES:	Ecologie de la pollinisation, aérobiologie	Crustacean systematics, behaviour, ecology	Population genetics
DESCRIPTION OF WORK:	Etude de la compétition par interférence lors de la pollinisation des éricacées arctiques.	Studying the effect of iceberg scour on shallow subtidal benthos (immediate impact, recolonization, community diversity, effect on local scavengers).	Population biology and evolutionary ecology of lesser snow geese
FIELDWORK LOCATION:	Nouveau-Québec; Yukon	Resolute Bay, N.W.T.	La Pérouse Bay, northern Manitoba
KEY WORDS:	pollen, éricacées	crustacea, iceberg scour, systematics, behaviour	evolution, genetics, geese, population

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SUB-DISCIPLINES:	Behavioural ecology	Wildlife management	Plant physiology
DESCRIPTION OF WORK:	Effects of shipping vessel noise on arctic marine mammals including their behaviour, communication and distribution; examination of interspecific and inter-stock differences in behaviour.	Studying the reproductive biology and predation on a population of rock ptarmigan (Lagopus mutus) in the central canadian Arctic.	The roles of respiration and nitrogen utilization in stress tolerance in arctic plants is analysed. An alternative respiratory pathway has been found to be important in arctic plants. It may be important in temperature stress tolerance and explain low growth rates in most arctic species.
FIELDWORK LOCATION:	Lancaster Sound; Beaufort Sea	Hope Bay (140 km south of Cambridge Bay), N.W.T.	Truelove Lowland, Devon Island, Alexandra Fjord, Ellesmere Island, Rankin Inlet, N.W.T., Churchill, Manitoba
KEY WORDS:	marine mammals, ship noise, underwater sound, behaviour, communication	ptarmigan, Lagopus, reproduction, predation	Arctic plants, respiration, nutrition, stress

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SUB-DISCIPLINES:	Paleoecology, paleoclimatology	Aquatic ecology (freshwater, estuarine and oceanic)	Wildlife management, environmental impact assessment
DESCRIPTION OF WORK:	The history of vegetation and climate change in Yukon; geographic variation of lodgepole pine in relation to population history; response of vegetation to climate change; postglacial development of forest and tundra; geographic variation of species in relation to population history; demography of Lupinus arcticus.	Surveys of invertebrates; specific studies of migratory fish.	Five year study of the red-throated loon, including its habitat preferences, breeding phenology and factors affecting its breeding effort and success; the red-throated loon will be used as an indicator of the effect of offshore oil and gas development on birds using the coastal region of the Beaufort Sea.
FIELDWORK LOCATION:	Yukon	Eastern Arctic	Tuktoyaktuk Peninsula; Yukon coastal plain
KEY WORDS:	climate change, lodgepole pine, treeline, pollen analysis	distribution, growth rates, feeding relations, invertebrates, fish	red-throated loon, sea ducks, monitoring

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SUB-DISCIPLINES:	Wildlife population biology, wildlife assessment biology	Diatom autecology, paleolimnology	Limnology
DESCRIPTION OF WORK:	Work on habitat requirements of shorebirds, used Landsat imagery for habitat mapping; various assessment related projects.	This project examines the freshwater diatomflora of high arctic ponds. We are determining the autecology of these species using mutivariate statistical analysis. Application of this calibration set is being used in paleolimnological studies of the region.	Successional processes in wetland communities, marine and freshwater
FIELDWORK LOCATION:	Mackenzie Delta; Tuktoyaktuk peninsula; Yukon northern slope	Cape Herschel, Ellesmere Island, N.W.T.	West coast James Bay
KEY WORDS:	shorebirds, landsat, habitat, population assessment	diatoms, ponds	succession, salt marsh, beach ridge

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SUB-DISCIPLINES:	Veterinary medicine, wildlife disease	Environmental toxicology, environmental physiology	Wildlife management
DESCRIPTION OF WORK:	Research into wildlife diseases in the N.W.T. and their management.	Adaptive responses of aquatic animals to natural stressors; toxicology of organic and inorganic contaminants in invertebrates, fish and marine mammals; environmental effects of petroleum industry activities; management of research programs.	Research on caribou, muskoxen, and wolves including distribution, abundance, harvesting, physical condition, reproduction, disease and evolution.
FIELDWORK LOCATION:	Yellowknife	Eastern Arctic; Baffin Island	Baffin Island; Bathurst Island; Belcher Island; Ellesmere Island
KEY WORDS:	disease, contaminants	toxicology, petroleum, environmental impact assessment, marine mammals, endocrinology, contaminant metabolism	caribou, wildlife research, wildlife management, distribution, condition, evolution

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SUB-DISCIPLINES:	Wildlife management, wildlife habitat conservation (migratory birds)	Wildlife management, arctic marine ecology	Physiology
DESCRIPTION OF WORK:	Wildlife habitat mapping and inventory, breeding bird surveys, protection of migratory bird habitats, environmental assessments	Marine environment and marine mammals.	Investigation of the reproductive biology and ecophysiology of the muskox (Ovibos moschatus); endocrinology of pregnancy; annual cycle of body composition and metabolic hormones; mechanisms controlling the annual reproductive cycle including response to melatonin.
FIELDWORK LOCATION:	N.W.T.		Victoria Island
KEY WORDS:	migratory birds, habitat conservation, remote sensing	marine mammals	muskox, Ovibos, pregnancy, hormones, reproduction, fat

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SUB-DISCIPLINES:	Wildlife and marine mammal management and ecology	Marine mammals	Wildlife, ornithology
DESCRIPTION OF WORK:	Distribution, abundance, behaviour, ecology of arctic marine mammals and other wildlife, particularly in relation to petroleum exploration and development.	Natural history and ecology of marine mammals of the north; seals, sea lions, walruses, beluga and other whales.	Studies of marine bird populations; survival, migration recruitment, reproduction; thick-billed murres (Uria lomvia)
FIELDWORK LOCATION:	Alaska; Yukon; N.W.T.	Alaska; Arctic Canada	Coats Island; Prince Leopold Island; Baffin Island
KEY WORDS:	whales, seals, bears, caribou, muskox, wolves, foxes, marine mammals, petroleum	marine mammals	marine birds, thick-billed murre, demography, population, migration

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SUB-DISCIPLINES:	Wildlife management	Wildlife management	Animal ecology, ornithology, wildlife management
DESCRIPTION OF WORK:	Research on physiology, ecology, population dynamics of bison, caribou, falcons.	Study of population dynamics of the mackenzie bison herd, including patterns of survivorship and mortality.	Etudes sur la nidification, l'alimentation, le comportement, les relations avec l'habitat chez les oies nichant dans l'arctique.
FIELDWORK LOCATION:	Southwestern N.W.T.	Mackenzie Bison Sanctuary, Fort Smith region of N.W.T.	Île de Bylot
KEY WORDS:	ecology, large herbivores, subarctic, wood bison, native co-management	bison, population	oie blanche, nidification, habitat, snow goose

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SUB-DISCIPLINES:		Plant biology, lichen taxonomy, field education	Wildlife management
DESCRIPTION OF WORK:	Ecophysiology of the canada goose; migration, reproduction and moult.	Research arctic lichen taxonomy and distribution.	Impact of harvesting on fur bearers, especially marten, by experiementally over-harvesting a known population of marten while also monitoring characteristics of marten harvested by regular trappers; examining recovery of vegetation and wildlife after fires; abundance and distribution of moose in the N.W.T..
FIELDWORK LOCATION:	Churchill, Manitoba, Swan Lake Refuge, Missouri	Thomsen River; Banks Island; Coppermine River; Hood River	Fort Smith, north Great Slave Lake, N.W.T.
KEY WORDS:	migration, reproduction, moult, canada goose	lichen	marten, harvesting, adaptive management, fire, wildlife, moose, population

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SUB-DISCIPLINES:	Wildlife management	Ornithology (shorebirds)	Zoology, ethology (animal behaviour)
DESCRIPTION OF WORK:	Studies to monitor the harvest of fish and wildlife by N.W.T. hunters, trappers and fishermen.	Breeding biology of arctic nesting shorebirds; use of landsat imagery in determining important breeding and staging areas for shorebirds.	Studies of the life histories of arctic birds and mammals, their behavioural adaptations for survival in the high arctic environment, and the relationships between predator and prey, and their environment.
FIELDWORK LOCATION:	N.W.T.	Churchill, Manitoba; Mackenzie Delta, N.W.T.	Polar Bear Pass; Bathurst Island; Sverdrup Pass; Ellesmere Island
KEY WORDS:	harvest, fish, wildlife	shorebirds, breeding, migration	birds, mammals, predation, animal behaviour

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SUB-DISCIPLINES:	Botany, mycology	Phytoplankton and periphyton photosynthesis and nutrient status	Wildlife management
DESCRIPTION OF WORK:	Maintain a herbarium collection with emphasis on fungi, particularyly edible/economically valuable species and discomycetes.	Eastern Arctic: phytoplankton, photosynthesis and nutrient status measurements in the Barrow Strait and Wellington Channel; western Arctic-Mackenzie Delta: lakes and channels in the delta; both phytoplankton and periphyton photosynthesis and nutrient status measurements were made.	Studies involving monitoring population movements, size and health mostly of muskox and caribou populations but other species as required.
FIELDWORK LOCATION:	Hay River	Barrow Strait; Wellington Channel; Mackenzie Delta	Kitikmeot Region
KEY WORDS:	fungi, discomycetes	phytoplankton, perphyton, photosynthesis, nutrient	muskox, caribou

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SUB-DISCIPLINES:	Population ecology, behavioural ecology	Wildlife management, vegetation, ecology	Paleobiology, quaternary vertebrates
DESCRIPTION OF WORK:	Causes of population cycles in grouse/ptarmigan; evolution of mating systems in northern birds; breeding biology and life history patterns in northern birds.	Grazing ecology of muskox in relation to life history strategies of muskox, predators, competitors and keystone forage species; the relationship of muskox with the upland vegetation, especially Oxytropis viscida; the effect of snowgeese on salt marsh vegetation.	Quaternary mammals of northern North America and the high arctic region, arctic and alpine mammals, climatic change in Canada, zoogeography, dispersal history.
FIELDWORK LOCATION:	Southern Yukon; Anderson River, N.W.T.	Banks Island; Hudson Bay Basin; La Pérouse Bay	Yukon; Alaska; N.W.T.; Ontario; Québec
KEY WORDS:	population cycle, ptarmigan, grouse, behaviour, breeding biology	muskox, vegetation, oxytropis, snow geese, salt marsh	Quaternary, Pleistocene, Holocene, veterbrates, mammals, evolution

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SUB-DISCIPLINES:	Wildlife management, behavioural ecology	Ornithology, wildlife management, remote sensing	Taphonomy
DESCRIPTION OF WORK:	Behavioural and ecology studies for barren-ground black bears and caribou.	Population surveys of migratory birds, mapping of wetlands, migratory bird management.	Actualistic studies of wolf predation on bison; feeding ecology of wolves and scavengers that utilize bison carcasses.
FIELDWORK LOCATION:	Ungava Peninsula; Labrador; Québec	Yukon	Wood Buffalo National Park, Alberta; N.W.T.
KEY WORDS:	black bear, caribou, behaviour, migration, habitat use	population, migratory birds	bison, wolf

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SUB-DISCIPLINES:	Wildlife management, population dynamics, behaviour	Aquatic biology, genetics, limnology, toxicology, ecology	Arctic plant ecology
DESCRIPTION OF WORK:	Census of caribou populations; behavioural and ecological factors influencing caribou abundance, especially wolf predation.	My research group is examining patterns of genetic diversity in zooplankton and fish populations from arctic Canada. We are as well conducting research on the population ecology of freshwater invertebrates.	Responses of arctic plant communities and species to gradients of climate, soil moisture, and grazing, using a combination of field and controlled environment experiments; range ecology of muskox and caribou.
FIELDWORK LOCATION:	N.W.T.	Churchill; Igloolik; eastern Arctic	Ellesmere Island; Inuvik; Tuktoyaktuk
KEY WORDS:	caribou, wolf, ecology, population	zooplankton, salmoniids, genetics, allozymes, mt DNA	arctic plants, climate change, grazing, muskox, caribou

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SUB-DISCIPLINES:	Wildlife behaviour and management	Administration	Wildlife management
DESCRIPTION OF WORK:	Study of circumstances associated with aggressive behaviour and attacks of polar bears on people.	Executive Director	Population ecology of boreal forest ducks and arctic nesting geese.
FIELDWORK LOCATION:	Canadian Arctic	N.W.T.	Western Arctic; Yellowknife
KEY WORDS:	polar bears, behaviour, attacks, safety	wildlife, research, waterfowl, administration	ducks, geese, population

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SUB-DISCIPLINES:	Ecology	Wildlife research and habitat management	Marine mammal population biology
DESCRIPTION OF WORK:	Seabird trophic interactions with the arctic marine food web determined using stable isotope analysis.	Research on sheep, bison, elk and deer; habitat mappings and skeleton descriptions.	Research into biotic and abiotic factors controling population density-survey design and development.
FIELDWORK LOCATION:	Lancaster Sound, N.W.T.	Yukon	Canadian arctic waters
KEY WORDS:	food web, stable isotopes, caribou, nitrogen, seabirds	Dall's sheep, bison, elk, deer, habitat	marine mammal, population, biology survey

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SUB-DISCIPLINES:	Ecology	Wildlife management, plant ecology	Biology, marine mammals, environmental sciences
DESCRIPTION OF WORK:	Interactions between a breeding population of lesser snow geese and the coastal vegetation in relation to, a) numbers and growth of birds and availability of forage, b) maintenance of wetland habitats.	Muskrat ecology in the Mackenzie Delta, N.W.T.; aquatic vegetation of arctic lakes, vegetation of alpine regions.	Distribution, abundance, effects of development, environmental impacts, taxonomy, population dynamics and migration of arctic birds and mammals.
FIELDWORK LOCATION:	La Pérouse Bay, Manitoba; Hudson Bay lowlands	Mackenzie Delta, N.W.T.	Arctic Canada; Alaska; Greenland; Svalbard
KEY WORDS:	lesser snow goose, foraging, salt-mashes, sedge meadows, habitat	muskrats, impact assessment, habitat	distribution, abundance, populations, migrations, birds, mammals

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SUB-DISCIPLINES:	Wildlife biology, fire and snow ecology	Wildlife management, avian ecology, waterfowl population and distribution	Wildlife management
DESCRIPTION OF WORK:	Barrier ground caribou, moose, adaptions of mammals to living in snow; identification of snow goose populations by their feather chemistry; forays into many aspects of arctic biology.	Use of large format aerial photography to census nesting snow goose and Ross' Goose, colonies; legbanding and neckbanding of snow geese, white-fronted geese and Canada geese on arctic breeding grounds; ground studies of vegetation and effects of grass grazing.	Population dynamics, population estimation, management, behaviour, and ecology of arctic marine mammals, including ringed seal, narwhal, beluga; mathematical biology and biometrics.
FIELDWORK LOCATION:	Northern Mackenzie District, N.W.T.	West Hudson Bay; Queen Maud Gulf	North Baffin Island; Parry Channel; western Arctic
KEY WORDS:	caribou, wildlife, moose, muskox, renewable resources	geese, populations	ringed seal, narwhal, beluga, population, vocalizations

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SUB-DISCIPLINES:	Ecology	Wildlife management	Biophysics, electromagnetic effects on biological systems
DESCRIPTION OF WORK:	Population dynamics of snowshoe hares in southwest Yukon; Population dynamics of the collared lemming at Pearce Point, N.W.T..	Ecological investigations of whooping cranes (Grus americana) on breeding range in Wood Buffalo National Park and vicinity.	Electrophysiology of connective tissue.
FIELDWORK LOCATION:	Kluane Lake, Yukon; Pearce Point, N.W.T.	Wood Buffalo National Park	
KEY WORDS:	snowshoe hares, population cycles, collared lemmings, voles, predation	whooping crane, breeding range	electromagnetic fields, radiation

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SUB-DISCIPLINES:	Boreal plant ecology	Wildlife management	
DESCRIPTION OF WORK:	Research on plant community structure.	Distribution and abundance of Dall's sheep in Mackenzie Mountains, N.W.T.; distribution and abundance of moose in the Norman Wells area; furbearer studies.	Studies of avian ecology, especially passerine species
FIELDWORK LOCATION:	Northern Canada	Norman Wells area; Mackenzie Mountains	Mackenzie Mountains, N.W.T.
KEY WORDS:	Boreal forest, plant ecology	Dall's sheep, moose, furbearers, population	avian, passerine

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SUB-DISCIPLINES:		Wildlife research and management	Identification of aquatic animals and plants
DESCRIPTION OF WORK:	Pathology of birds and other wild animals in the North and especially as influenced by environmental problems (e.g. oil spills)	Grizzly bear population estimate and female productivity study in the Anderson - Horton River area; wolf-prey relationships focusing on wolf reproduction, movements, survival, predation rates and genetics; emphasis on wolf ecology and relationships to caribou.	Identification and enumeration of freshwater and marine benthos, plankton, plants, fish, stomach contents; sidelines-surveys and collection of above, coliform bacteria determinations.
FIELDWORK LOCATION:	N.W.T.; Saskatchewan; Labrador	Anderson-Horton River area, N.W.T.	
KEY WORDS:	birds, oil spills	grizzly bear, population, survival, wolf, predation, reproduction	identification, invertebrate, fish, benthos, plankton, algae

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SUB-DISCIPLINES:	Faunistics, ecology	Biologie végétale, écologie végétale, foresterie	Wildlife management, animal behaviour, ecology
DESCRIPTION OF WORK:	Preparation of a field guide of the fauna, flora, paleontology and geomorphology of the north.	Flore vasculaire des 100 km^2 entourant Schefferville.	Behaviour and ecology of arctic mammals including lemmings, arctic fox, wolves, beluga, seals, with an emphasis on predator/prey systems.
FIELDWORK LOCATION:	N.W.T.	Schefferville, Québec	Eskimo Point, N.W.T.; Churchill, Manitoba
KEY WORDS:	field guide, flora, fauna	flore, vasculaire, flora	lemmings, fox, wolves, beluga, seals, ecology, management, behaviour

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SUB-DISCIPLINES:	Paleoclimatology, paleobotany	Wildlife management	Botany, entomology
DESCRIPTION OF WORK:	Collect and examine plant macrofossils; interpret paleoclimates and environments; describe plants of past and interpret evolution within groups and lineages.	Monitoring status of Banks Island muskox and caribou; monitoring status of Bluenose caribou.	Examination of the interrelationships between plants and insects, including plant structural, phenological and reproductive response to insect herbivory; behavioural adaptations of the insects, particularly their life cycles and feeding patterns with reference to the micro-climate provided by the plant.
FIELDWORK LOCATION:	Ellesmere Island; Axel Heiberg Island	Banks Island	Ellesmere Island
KEY WORDS:	plant evolution	muskox, caribou, disease	plants, insects, life cycles, behaviour

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SUB-DISCIPLINES:	Wildlife ecology and management	Wildlife research	Wildlife ecology
DESCRIPTION OF WORK:	Studies on species of economic importance to N.W.T. inhabitants; field work involves ungulate feeding behaviour.	Population ecology of polar bears in the arctic archipelago; winter foraging ecology of muskox on Victoria Island.	Ecological studies of Peary caribou with an emphasis on the need for their conservation and preservation; activities include investigation of 1) springtime foraging strategies in relation to snow/ice conditons; 2) the timing of the calving period, particularly the peak period of calving; 3) initial calf production (calving success) and early survival of calves; and 4) documentation of spring movements and distributions within the Bathurst Island complex.
FIELDWORK LOCATION:	N.W.T.	McClure Strait and Viscount Melville area, Victoria Island	Bathurst Island, N.W.T.
KEY WORDS:	ungulates, feeding	polar bear, muskox, population	caribou, foraging, calving, migration

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FAX:	(613)545-6617	(819)953-6612	(819)857-2782
SUB-DISCIPLINES:	Animal behaviour, evolutionary biology	Ornithology, conservation	Wildlife management
DESCRIPTION OF WORK:	Studies of sexual selection and parental care in arctic birds; research on mating strategies, colouration and ornaments, song, territoriality, mate choice, intrasexual competition, contests, life history tactics, foraging behaviour, parental care and nest defence.	Distribution and migration systems of shorebirds, breeding biology of shorebirds, energy budgets of shorebirds, use of remote sensing technology for habitat classification.	Distribution and abundance of polar bear, caribou, peregrine falcons, and to a lesser extent muskox, wolf, and waterfowl; wildlife harvest study and caribou monitoring.
FIELDWORK LOCATION:	Sarcpa Lake, Melville Peninsula, N.W.T.; Churchill, Manitoba; Pribilof Island, Alaska	Ellesmere Island; Foxe Basin; James Bay; Hudson Bay	Arviat, Southampton Island, N.W.T.
KEY WORDS:	birds, behaviour, mating, reproduction, survival	shorebirds, migration, remote sensing	wildlife surveys, polar bears, caribou, peregrine falcons, muskox, wolf

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TELEPHONE:	(403)979-7305	(709)772-4049	(913)864-3178
FAX:	(403)979-2418	(709)772-2156	(913)
SUB-DISCIPLINES:	Wildlife research and management	Marine mammal assessment	Ornithology
DESCRIPTION OF WORK:	Wildlife research and management in the Inuvialuit Settlement Region.	Population ecology and demography of seals and cetaceans.	Study of the comparative breeding biology of the Harris' Sparrow (Zonotrichia querula) and white-crowned sparrow (Z. leucophrys).
FIELDWORK LOCATION:	Inuvik, N.W.T.	Newfoundland; Labrador	Thelon Game Sanctuary, N.W.T.
KEY WORDS:	wildlife	population, seals, cetaceans	breeding, Zonotrichia querula, Zonotrichia leucophrys

	Oliphant, Dr. Lynn Department of Veterinary Anatomy University of Saskatchewan Saskatoon, SK, Canada S7N 0W0	Pace, Eldon R. P.O. Box 286 Shubenacadie, NS, Canada B0N 2H0	Parker, Dr. Glenn H. Department of Biology Laurentian University Sudbury, ON, Canada P3E 2C6
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FAX:	(306)	(902)	(705)673-6532
SUB-DISCIPLINES:			Environmental toxicology
DESCRIPTION OF WORK:	Birds of prey in northern Saskatchewan	Habits of Brant geese in captivity is being monitored; egg laying, brooding, preference of warm seasons versus cold; disturbance during breeding season by humans and animals; sickness and diseases, nutrition; species being studies are Atlantic, Black, Russian and Lawrence and Gray Bellios.	Studies on biology and food of arctic wolf; translocation of metal contaminants through (soil-lichen-caribou-wolf) food chain.
FIELDWORK LOCATION:	Saskatchewan; N.W.T.		Keewatin District, N.W.T.
KEY WORDS:	predators, birds	Brant Geese, brooding, breeding, disease	wolves, predation, metals, food chain, bioaccumulation

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FAX:	(403)471-8583	(403)668-4288	(403)668-4363
SUB-DISCIPLINES:	Renewable resources	Wildlife ecology	Wildlife management
DESCRIPTION OF WORK:	Census of arctic animals, long term population levels of birds and muskox.	Research into northern mammalian ecology; studies on large carnivores.	Develop, coordinate, supervise big game management in the Yukon.
FIELDWORK LOCATION:	Devon Island; Arctic Islands	Yukon; Western N.W.T.	Yukon
KEY WORDS:	birds, census, muskoxen	mammals, carnivores	wildlife

	Peterson, Dr. E. B. 2-2563 Penrhyn Street Victoria, BC, Canada V8N 1G2	Peterson, Mrs. N. M. 2 - 2563 Penrhyn Street Victoria, BC, Canada V8N 1G2	Poole, Mr. Kim G. Wildlife Management Division Dept. of Renewable Resources Yellowknife, NT, Canada X1A 2L9
TELEPHONE:	(604)721-1110 or 477-8331	(604)721-1110	(403)920-6315
FAX:	(604)721-1029	(604)721-1029	(403)873-0293
SUB-DISCIPLINES:	Vegetation, plantecology	Vegetation, reclamation, land use	Wildlife management
DESCRIPTION OF WORK:	Land vegetation relationships, syntheses of hydrology information, environmental and land use overviews, renewable resource policy analyses.	Literature reviews, date searches of vegetation and land use relationships.	Research studies on furbearing mammals in the N.W.T., primarily lynx and marten.
FIELDWORK LOCATION:	Victoria Island		N.W.T.
KEY WORDS:	vegetation, land use, terrain	vegetation, land use	lynx, marten

	Pruitt, Dr. William O. Jr. Department of Zoology University of Manitoba Winnipeg, MB, Canada R3T 2N2	Ramsay, Dr. Malcolm A. Department of Biology University of Saskatchewan Saskatoon, SK, Canada S7N 0W0	Richardson, Dr. John W. LGL Ltd. 22 Fisher St. P.O. Box 280 King City, ON, Canada L0G 1K0
TELEPHONE:	(204)474-9683	(306)966-4412	(416)833-1244
FAX:	(204)275-6352	(306)966-4461	(416)833-1255
SUB-DISCIPLINES:	Mammalian ecology	Animal ecology	Animal behaviour, ecology, wildlife management
DESCRIPTION OF WORK:	Adaptations of mammals to northern environments, especially to winter and snow.	Investigation on nutritional ecology of polar bears and arctic sea birds.	Noise disturbance to marine mammals, especially bowhead whales; bird migration
FIELDWORK LOCATION:	Taiga Biological Station, Bissett, Manitoba	Churchill, Manitoba; Viscount Melville Strait, N.W.T.; Resolute, N.W.T.	Beaufort Sea
KEY WORDS:	mammals, adaptation, boreal, taiga, tundra	polar bears, seabirds, narwhal, reproduction, nutrition	bowhead whale, behaviour, disturbance, noise, migration

	Rodgers, Dr. Arthur R. Department of Zoology University of British Columbia Vancouver, BC, Canada V6T 2A9	Ronald, Professor Keith Director Institute for Environmental Policy and Steward Guelph, ON, Canada N1G 2W1	Russell, Mr. Don E. Canadian Wildlife Service Box 6010 Whitehorse, YT, Canada Y1A 5L7
TELEPHONE:	(604)228-5521	(519)824-4120 ext.2356	(403)668-2285
FAX:	(604)	(519)763-9598	(403)667-7962
SUB-DISCIPLINES:	Small mammal population biology, foraging ecology	Marine biology	
DESCRIPTION OF WORK:	Food habits of arctic lemmings in tundra and of snowshoe hares in the boreal forest; the role of food quality and abundance in the population dynamics of lemmings and snowshoe hares.	Ecophysiology of phocid seals in NW Atlantic and Arctic.	Range relations of the porcupine caribou herd.
FIELDWORK LOCATION:	Igloolik, N.W.T.; Kluane Lake, Yukon	Grise Fiord, Eastern Canada	Northern Yukon
KEY WORDS:	lemmings, snowshoe hares, population, food habits	seals	caribou, habitat

	Scott, Mr. Peter A. RR # 1 P.O. Box 22 Churchill, MB, Canada L0L 1K0	Seutin, Dr. Gilles Department of Biology Queen's University Kingston, ON, Canada K7L 3N6	Sheath, Dr. Robert G. Department of Biology Memorial University Newfoundland St. John's, NF, Canada A1B 3X9
TELEPHONE:	(705)456-2862	(613)545-6128	(709)737-7498
FAX:	(705)721-1442	(613)545-6617	(709)737-4000
SUB-DISCIPLINES:	Ecosystem	Population genetics, systematics, behaviour	Phycology
DESCRIPTION OF WORK:	Stability of treeline ecosystems under changing environmental stresses.	Field and laboratory analyses of the evolutionary relationships among conspecific bird populations and among closely related species; principally interested in passerine birds.	Distribution, systematics and physiological adaptations of tundra stream macroalgae.
FIELDWORK LOCATION:	Churchill, Manitoba	Northern Manitoba; Northern Québec; Baffin Island	Alaska; N.W.T.; Greenland; Northern Québec.
KEY WORDS:	lemmings, treeline, white spruce, climate change	birds, population, behaviour, passerine	algae, stream, rhodophyta, chlorophyta, cyanophyta

	Siu-Ling, Han Delcan Corporation 2001 Thurston Drive P.O. Box 8004 Ottawa, ON, Canada K1G 3H6)	Smith, Dr. Ralph E.H. Biology Department University of Waterloo Waterloo, ON, Canada N2L 3G1	Snell, Dr. Richard R. Canadian Museum of Nature P.O. Box 3443, Station D Ottawa, ON, Canada K1P 6P4
TELEPHONE:	(613)739-7105	(519)885-1211	(613)952-8557
FAX:	(613)	(519)746-0614	(613)954-6439
SUB-DISCIPLINES:	Aquatic ecology, phycology	Biological oceanography	
DESCRIPTION OF WORK:	Phosphorus budget modelling/primary production in reservoirs; epontic algae; ecology of juvenile arctic char.	Rates and processes of microbial activity in arctic sea water and ice; primary production and material cycling in arctic marine ecosystems.	Molecular evolution in high arctic charadruform birds.
FIELDWORK LOCATION:	Smallwood Reservoir, Labrador; Ungava Bay, Québec; Resolute, N.W.T.	Canadian Arctic Archipelago	Baffin Island; Svalbard; Iceland
KEY WORDS:	algae, char	marine, ecosystem, primary production, microbial	molecular evolution, birds

	Stenhouse, Mr. Gordon B. Ducks Unlimited Canada Box 2641 Yellowknife, NT, Canada X1A 2P9	Stenson, Dr. Garry B. Dept. of Fisheries and Oceans Science Branch P.O. Box 5667 St. John's, NF, Canada A1C 5X1	Stewart, Dr. Robert E. A. Dept. of Fisheries and Oceans Freshwater Institute 501 University Crescent Winnipeg, MB, Canada R3T 2N6
TELEPHONE:	(403)873-6744	(709)772-5598	(204)983-5023
FAX:	(403)873-6387	(709)772-2156	(204)983-6285
SUB-DISCIPLINES:	Habitat conservation	Wildlife management, population assessment, ecology of marine mammals	Marine mammalogy, productivity
DESCRIPTION OF WORK:	Wetland ecology and waterfowl conservation.	Research into marine mammals including population assessments of harp and hooded seals; food and feeding reproduction; distribution and relative abundance; research on contaminants and stock structure of hooded seals and harbour porpoises; primary species studied are harp, hooded and grey seals, and harbour porpoise.	Growth, feeding, reproduction, energetics and behaviour of arctic marine mammals - seals, walrus, whales.
FIELDWORK LOCATION:	N.W.T.	Newfoundland; Labrador; Davis Strait.	Arctic Canada
KEY WORDS:	wetlands, waterfowl	marine mammals, seals, population, fisheries interactions incidental catches	

	Taylor, Mr. Mitchell K. Dept. of Renewable Resources P.O. Box 1320 Yellowknife, NT, Canada X1A 2L9	Thomas, Dr. Donald C. Canadian Wildlife Service 2nd Floor, 4999 - 98 Avenue Edmonton, AB, Canada T6B 2X3	Thomas, Vernon G. Zoology Department College of Biological Science University of Guelph Guelph, ON, Canada N1G 2W1
TELEPHONE:	(403)873-7764	(403)435-7351	(519)824-4120 ext. 2738
FAX:	(403)873-0114	(403)435-7359	(519)767-1656
SUB-DISCIPLINES:	Wildlife Management	Wildlife research	Wildlife management
DESCRIPTION OF WORK:	Inventory of polar bear population within and shared with the N.W.T.; polar bear ecology, large mammal demography.	Study of the effects of fire on the winter range of the Beverly herd of barren-ground caribou.	Population biology of arctic-breeding waterfowl and gulls.
FIELDWORK LOCATION:	N.W.T.	N.W.T.	High Arctic
KEY WORDS:	polar bears population, marine mammals	caribou, fire, habitat	geese, nutrition, reproduction, migration, ivory gulls

	Wang, Mr. Zhengiang Department of Botany B - 414 Biosciences Bldg. University of Alberta Edmonton, AB, Canada T6E 2H7	Wein, Dr. Ross W. Department of Forest Science University of Alberta Edmonton, AB, Canada T6G 2H1	Weis, Dr. Michael Department of Biological Science University of Windsor Windsor, ON, Canada N9B 3P4
TELEPHONE:	(403)439-9022	(403)492-2038	(519)253-4232 ext. 2724
FAX:	(403)492-1153	(403)492-4323	(519)973-7050
SUB-DISCIPLINES:	Botany	Environmental forestry; fire ecology	Plantecology, environmental toxicology
DESCRIPTION OF WORK:	Biosystematic studies of Ledum from northern America.	Studying role of fire in Northern forests and long term recovery of tundra ecosystems after natural and human caused disturbances.	Biogeography and reproductive ecology of arctic plants (particularly Betula spp.) and the distribution of contaminants (heavy metals and organics) in the arctic food chain with a particular interest in seasonal dynamics of contaminants in seals.
FIELDWORK LOCATION:	British Columbia; Yukon; Alaska; Alberta; Saskatchewan; Manitoba	Wood Buffalo National Park; Inuvik	Baffin Island; Nouveau-Québec; Belcher Island
KEY WORDS:	Ledum, classification, population, micro-evolution	fire, disturbance	betula, reproduction, organic contaminants, seasonal dynamics

	Welch, Dr. Harold Freshwater Institute 501 University Crescent Winnipeg, MB, Canada R3T 2N6	Williams, Mr. Mark T. Dept. of Renewable Resources P.O. Box 1320 Yellowknife, NT, Canada X1A 2L9	Wright, Roberta A. Department of Forest Science 855 General Services Bldg University of Alberta Edmonton, AB, Canada T6G 2H1
TELEPHONE:	(204)983-5132	(403)920-8071	(403)492-4135
FAX:	(204)983-6285	(403)873-0293	(403)
SUB-DISCIPLINES:	Aquatic ecology	Wildlife management	Conifer ecological genetics, species diversity management
DESCRIPTION OF WORK:	Trophic dynamics of the arctic marine ecosystem, productivity of marine mamamal food chain.	Research factors that influence the population dynamics of barren-ground caribou and wolves in the Northwest Territories; wolf denning behaviour.	Analysis of population differentiation and genetic structure of jack pine in the boreal forest; management of plant species diversity in forested, prairie and urban ecosystems.
FIELDWORK LOCATION:	Resolute and Saquaqjuac	N.W.T.	N.W.T.; Northern Alberta
KEY WORDS:	marine, energy flow, productivity	barren-ground caribou, wolves, denning behaviour	drought resistance, jack pine, species diversity

BUSINESS -- ÉTUDES DES ENTREPRISES

	Barkley, Dorothy D. Yellowknife Chamber of Commerce Box 906 Yellowknife, NT, Canada X1A 2N7	Iqaluit Chamber of Commerce Box 1107 Iqaluit, NT, Canada X0A 0H0	Wuttunee, Ms. Wanna A. Arctic Institute of North America University of Calgary Calgary, AB, Canada T2N 1N4
TELEPHONE:	(403)920-4944	(819)979-4095	(403)220-4053
FAX:	(403)920-4640	(819)979-4095	(403)282-4609
SUB-DISCIPLINES:	Marketing		Sustainable economic development
DESCRIPTION OF WORK:	To represent interests of local business community through education, information dissemination, policy development, government lobbying, program development and management.	Service industry serving the business people of Iqaluit.	Case studies of successful northern businesses; various sectors of economy, but engaged in profitable sustainable ventures ranging from three years of operations to seventy-five years.
FIELDWORK LOCATION:	Yellowknife	Iqaluit	Yukon; N.W.T.
KEY WORDS:	education		business development

CANADIAN STUDIES -- ÉTUDES CANADIENNES

Symons, Dr. Thomas H.B.
Vanier Professor
Trent University
Peterborough, ON, Canada
K9J 7B8

TELEPHONE: (705)748-1761
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SUB-DISCIPLINES: Public policy, cultural policy

DESCRIPTION OF WORK: Studies on public policy and northern issues; assessments of the state of northern research; examination of cultural and educational issues; identification and conservation of historic sites.

FIELDWORK LOCATION:

KEY WORDS: public policy, culture, education, historic sites

CHEMISTRY -- CHIMIE

	Bottenheim, Dr. Jan W. AEA/ARQ, Environment Canada, 4905 Dufferin St. Downsview, ON, Canada M34 5T4	Brindle, Ian D. Chemistry Department Brock University St. Catherines, ON, Canada L2S 3A1	Dubey, Dr. R.J. Terrain Sciences Division Geological Survey of Canada 601 Booth Street Ottawa, ON, Canada K1A 0E8
TELEPHONE:	(416)739-4838	(416)688-5550 ext.3545	(613)996-3524
FAX:	(416)739-4224	(416)682-9020	(613)996-9990
SUB-DISCIPLINES:	Atmospheric chemistry		Arctic environmental pollution, snow and ice core chemistry
DESCRIPTION OF WORK:	Long time observations of ozone, pan and other oxides of nitrogen. Study of the mechanism of ozone depletion in the lower troposphere during arctic spring.	Trace element determinations, sea water analysis, sea ice analysis.	Determination of anthropogenic pollutants by ion chromatography and determination of present and past chemical environment and sources of pollutants.
FIELDWORK LOCATION:	Alert, N.W.T.	Eclipse Sound, N.W.T.	Agassiz ice cap
KEY WORDS:		element analysis	pollution, anthropogenic pollutants, acid rain, sulfate nitrate

	Hudec, Ms. Victoria C. 4905 Dufferin St. North York, ON, Canada M3H 5T4	Worthy, Douglas E. J. 65 Swinton Crescent Thornhill, ON, Canada L4J 2W9	Yurkowski, Dr. Michael Fisheries and Oceans Canada 501 University Crescent Winnipeg, MB, Canada R3T 2N6
TELEPHONE:	(416)739-4462	(416)738-4625	(204)983-3279
FAX:	(416)739-4664	(416)739-4664	(204)983-6285
SUB-DISCIPLINES:	Air quality research	Atmospheric	Marine animal lipid biochemistry
DESCRIPTION OF WORK:	I am involved in the monitoring of greenhouse gases at remote canadian baseline stations.	Plan, develop, assemble, operate and maintain systems for measuring radiative properties of the atmosphere. Participate in field experiments, develop quality control/quality assurance programs, analyse data and write scientific reports.	The overall objective is to develop knowledge regarding feeding ecology, nutrition, energy flow and reproductive status of arctic marine mammalian populations as expressed by lipid composition and metabolism
FIELDWORK LOCATION:	Alert, N.W.T.; Sable Island, N.S.; Cape St. James, B.C.	Alert, N.W.T.; Bapmon Lab	
KEY WORDS:	greenhouse gases	Bapmon Rags	lipids, nutrition, arctic marine mammal, food, feeding ecology

COMMUNICATIONS -- COMMUNICATIONS

	Burnett, Dr. Ronald F. Director, Graduate Program in Communications McGill University 3465 Peel St., Montreal, PQ, Canada H3A 1W7	Inuvialuit Communications Society Box 1704 Inuvik, NT, Canada X0G 0T0	Stenbaek, Dr. Marianne Centre for Northern Studies and Research McGill University 805 Sherbrooke St. West Montreal, PQ, Canada H3A 2K6
TELEPHONE:	(514)398-4110	(403)979-2320	(514)398-6052
FAX:	(514)398-3594	(403)979-2744	(514)398-8364
SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Influence of new broadcasting and communications technologies on indigenous peoples; general history of technology in Canada.	As a communications society our mandate is to reflect cultural/traditional values/activities of all Inuvialuit through television and newspaper.	Communications in the North (i.e. mass media and cultural studies); arctic policy.
FIELDWORK LOCATION:	Pacific	Inuvik	
KEY WORDS:	broadcasting, indigenous peoples	cultural values, television	cultural studies, mass media, arctic policy

	Sunatori, Mr. Simon HyperInfo Canada Inc. 65 des Parulines Hull, PQ, Canada J9A 1Z4	Valaskakis, Dr. Gail Dept. of Communication Studies Concordia University 7141 Sherbrooke Street, West Montreal, PQ, Canada H4B 1R6	Wilson, Mr. Manus 211 De Baets Street Winnipeg, MB, Canada R2J 4A8
TELEPHONE:	(819)595-9210	(514)848-2555	(204)663-8142
FAX:	(819)	(514)848-8766	(204)663-3712
SUB-DISCIPLINES:	Information technology	Native	Communications, wildlife, conservation, ornithology
DESCRIPTION OF WORK:	Lifestyle research - habitat in the North in geodesic domes. Development of knowlege industry in the Canadian North through communications links.	Research on historical patterns of native and non-native communication; fieldwork on introduction and impact of new media technologies; evaluation of native satellite projects; research on development of native and non-native communications, policy and programs in Canadian North.	Engaged in radio communications, radar, sonar, ultrasonics; H.F. SSB radiotelephones.
FIELDWORK LOCATION:		Baffin Island; Northern Québec; Keewatin	Arctic Canada; USSR
KEY WORDS:	information technology, artifical intelligence	native, satellite	radar, sonar

CRIMINOLOGY -- CRIMINOLOGIE

	Finkler, Harald W. Indian and Northern Affairs Circumpolar and Scientific Affairs Les Terrasses de la Chaudière Ottawa, ON, Canada K1A 0H4	Griffiths, Dr. Curt T. School of Criminology Simon Fraser University Burnaby, BC, Canada V5A 1S6	Jaccoud, Mme. Mylène Université de Montréal Centre International de Criminologie Comparée C.P. 6128, Succ. A, Montreal, PQ, Canada H3C 3J7
TELEPHONE:	(819)997-9666	(604)291-4158	(514)343-6111 poste 3649
FAX:	(819)953-0546	(604)291-4140	(514)343-2269
SUB-DISCIPLINES:		Indigenous peoples and the law, crime and criminal justice in the circumpolar north	
DESCRIPTION OF WORK:	Socio-legal research with regard to northern natives and the criminal justice system in Canada's Arctic, with a study focus on the socio-legal impact of major resource developments, and analysis of the application of aboriginal customary law in the administration of justice.	Multi-year study of crime and criminal justice in the Baffin Region, N.W.T., 1990-1993; parallel studies on the north slope of Alaska and on the west coast of Greenland.	Analyse des pratiques et des points de vue des Inuits de Povungnituk quant à la gestion pénale étatique versus la gestion communautaire et analyse socio-historique de l'implantation des appareils de justice au Nouveau-Québec; Inuit (recherche en cours - fin de la recherche prévue pour l'été 1991).
FIELDWORK LOCATION:	N.W.T.; Yukon; Nouveau-Québec	Eastern Arctic; Alaska; Greenland	Povungnituk; Nouveau-Québec
KEY WORDS:	criminal justice, socio-legal, aboriginal customary law	indigenous peoples, justice	justice, Inuit

DEMOGRAPHY -- DÉMOGRAPHIE

	Carney, Dr. Robert J. Room 5-109 Education Building-North UN University of Alberta Edmonton, AB, Canada T6G 2G5	Hawkes, David C. School of Public Administration Carleton University Ottawa, ON, Canada K1S 5B6	Krotki, Dr. Karol J. Department of Sociology University of Alberta Edmonton, AB, Canada T6G 2H4
TELEPHONE:	(403)492-3726/3729	(613)788-2547	(403)492-0477
FAX:	(403)497-0762	(613)788-2551	(403)492-7196
SUB-DISCIPLINES:	Location of populations, contact dates, intervention programs	Demography	Age composition, language preservation
DESCRIPTION OF WORK:	Research to enrollment, retention and destination patterns; (E-6 census area).	Demography; social statistics; land claims; public administration	Analysis of population collected during censuses and social surveys; administration.
FIELDWORK LOCATION:	Cumberland Sound		
KEY WORDS:	census data	aboriginal, north	language, ethnicity, age pyramids

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	Robitaille, Mr. Norbert Y. Département de Démographie Université de Montréal C.P. 6128, Succ. A Montréal, PQ, Canada H3C 3J7
TELEPHONE:	(514)343-5981
FAX:	(514)343-2309
SUB-DISCIPLINES:	
DESCRIPTION OF WORK:	Monographie sur les donnés du recensement 1981, concernant les Inuit; plusieurs articles concernant l'évolution démographique des Inuit du Nouveau-Québec.
FIELDWORK LOCATION:	
KEY WORDS:	Inuit, census data

ECONOMICS -- ÉCONOMIE

	Anderson, Thomas J. 1007-350 Sparks Street Ottawa, ON, Canada K1R 7S8	Boland, Mr. Kells S. Suite 1960 540-5th Avenue, S.W. Calgary, AB, Canada T2P 0M2	Duerden, Frank School of Applied Geography Ryerson College 350 Victoria Street Toronto, ON, Canada M5B 2K3
TELEPHONE:	(613)238-1840	(403)233-8409	(416)979-5000 ext.7240
FAX:	(613)238-1291	(403)	(416)979-5273
SUB-DISCIPLINES:	Arctic shipping, transportation		
DESCRIPTION OF WORK:	Feasibility of extending the existing operations for commercial arctic transportation or developing new ones; including bulk minerals, oil and gas, cruise ships, and resupply; the analysis include: ice dana, current arctic ship technology and economics.	Statistical research and economic evaluation of arctic pipelines, marine systems, winter/ice roads and interface with conventional modes.	Investigation of community economic base. Evaluation of land base components of native claims. Investigation of appropriate approaches to planning in the North.
FIELDWORK LOCATION:			Yukon; N.W.T.
KEY WORDS:	transport, marine, ice-breaking, resupply, feasibility	transport, pipelines, marine, roads	native claims, community economic base, land use planning

	McMillan, Dr. Carl H. Department of Economics Carleton University Ottawa, ON, Canada K1S 5B6	Stabler, Dr. Jack C. Dept. of Agricultural Economics University of Saskatchewan Saskatoon, SK, Canada S7N 0W0	Stubbs, Mr. Thom c/o Economic Development Yukon Government Whitehorse, YT, Canada Y1A 2C6
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FAX:	(613)	(306)966-8717	(403)668-6205
SUB-DISCIPLINES:		Regional development, northern development, rural development	
DESCRIPTION OF WORK:	Joint East-West ventures in Siberian and Soviet Arctic resource development.	Economic simulation models; labour force activities of northern native people; economic development of N.W.T. and Yukon; studies of the native economy.	Regional economic analysis; trade linkages.
FIELDWORK LOCATION:		Western Arctic; western N.W.T.; Yukon	Whitehorse
KEY WORDS:	USSR, joint ventures, Siberia	modelling, labour force, traditional economy	economic, trade

EDUCATION -- ÉDUCATION

	Carney, Dr. Robert J. Room 5-109 Education Building North University of Alberta Edmonton, AB, Canada T6G 2G5	Gordon Robertson Education Centre Box 487 Iqaluit, NT, Canada X0A 0H0	Kindt, Mr. Don A. Curriculum Coordinator - Science Department of Education Box 1320 Yellowknife, NT, Canada X1A 2L9
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FAX:	(403)497-0762	(819)979-4380	(403)873-0155
SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Science curriculum in northern schools; teacher training; formal and informal education programs; outcomes of residential schooling; northern policies.	Issues concernimg environmental pollution.	Develop curriculum (kindergarten to grade 12) for all schools in the Northwest Territories; culture based focus; attempting to incorporate traditional and local knowledge into science curriculum; strong environmental and science technology, society emphasis.
FIELDWORK LOCATION:	Northern Alberta; Arctic Québec; N.W.T.		Yellowknife
KEY WORDS:	science curricula, residential schooling	environment, pollution	curriculum development

	Marshall, Dr. M.L. Yukon College P.O. Box 2799 Whitehorse, YT, Canada Y1A 5K4	Rubin, Mr. Michael General Delivery Fort Franklin, NT, Canada X0E 0G0	Senkpiel, Aron E. Yukon College Box 2799 Whitehorse, YT, Canada Y1A 5K4
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FAX:	(403)668-8890	(403)589-4112	(403)668-8890
SUB-DISCIPLINES:	Post-secondary education	Sociology, ethnographic studies, anthroplogy	Post-secondary, higher education
DESCRIPTION OF WORK:	College-focused research primarily with some community-based needs analysis, demographics.	Changes in perceptions between native and non-native individuals regarding education; indicators for "early school leavers".	Study of the development of an "indigenous" academic capability in the canadian north particularly in relation to the development of Arctic College and Yukon College.
FIELDWORK LOCATION:		Fort Franklin, N.W.T.	Yukon
KEY WORDS:	demographics	native, perceptions, early school leavers	indigenous, academic, college

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SUB-DISCIPLINES: Adult education, community development, management sciences

DESCRIPTION OF WORK: Design and evaluation of northern education problems for culturally, appropriate development, management training for aboriginal self-government, cross-cultural training for public and private sector organizations.

FIELDWORK LOCATION: Keewatin; Northern Saskatchewan; Yukon; North-Central Alberta

KEY WORDS: adult education, management training, cross-cultural

ENGINEERING -- GÉNIE

	Aboulazm, Dr. Azmy F. P.O. Box 4920 Marine Institute St. John's, NF, Canada A1C 5R3	Anderson, Ian Innotech Aviation Limited 5455 B Airport Road South Richmond, BC, Canada V7B 1B5	Aupecle, Marie F. 2140 - 1979 Marine Drive North Vancouver, BC, Canada V7P 3G2
TELEPHONE:	(709)778-0529	(604)273-8686	(604)681-8100
FAX:	(709)778-0346	(604)273-5813	(604)681-8100
SUB-DISCIPLINES:		Aviation technology/research	
DESCRIPTION OF WORK:	Vessels and offshore structures performance in ice infested waters.	Aviation and avionics research and design technology.	Location tracking system, miniaturized device design.
FIELDWORK LOCATION:		N.W.T.	
KEY WORDS:	ships, naval architecture, ice resistance	aviation	telemetry, tracking system

	Avron, Mr. Ritch Fleet Technology Limited 16-6325 11th Street, S.E. Calgary, AB, Canada T2H 4L6	Baker, Mr. David Suite 1007 350 Sparks Street Ottawa, ON, Canada K1R 7S8	Baker, Mr. Harry Institute for Research in Construction Nat. Research Council of Canada Ottawa, ON, Canada K1A 0R6
TELEPHONE:	(403)253-4883	(613)238-1840	(613)993-3807
FAX:	(403)253-2070	(613)238-1291	(613)954-5984
SUB-DISCIPLINES:		Naval architecture	Cold regions engineering
DESCRIPTION OF WORK:	Measurement of ice loads on seabreaking vessels' propellers and nozzles. Extreme wave heights in the Beaufort Sea. Measurement of pack ice stresses.	Multi-discipline naval architecture and software development projects; extensive arctic related physical and numerical marine simulation.	Evaluation of passive insulation methods for embankments and cut slopes on permafrost soils.
FIELDWORK LOCATION:	Beaufort Sea; Chukchi Sea		Mackenzie Valley, N.W.T.; Umiujaq, Northern Québec
KEY WORDS:	ice loads	software, marine simulation	passive, insulation, thermal protection, permafrost

	Banke, Mr. Erik G. P.O. Box 32 Bedford, NS, Canada B4A 2X1	Barabé, M. Yves Montréal, PQ, Canada H4A 2V4	Barraud, Dr. Claude J.G. Technology Development Branch Environment Canada 351 St-Joseph Boul Hull, PQ, Canada K1A 0H3
TELEPHONE:	(902)445-5183	(514)289-6318	(613)991-1577
FAX:	(902)	(514)289-6585	(613)991-1634
SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Ice-related projects; ice breaker performance, ice characteristics, extension of drilling season technology, ice engineering and environmental hazard investigations through ice technology.	Recherche sur les installations septiques avec élément épurateur, pour application en milieu nordique, avec tuyauterie pré-isolée en usine et système de distribution sous faible pression.	Research on improving performance of cold climate sewage lagoons for the Yukon (Whitehorse); Amélioration de la performance des champs d'épuration par l'utilisation de géosythétiques.
FIELDWORK LOCATION:	Beaufort Sea; Queen Elizabeth Islands; Ellesmere Island	Baie James	Whitehorse, Yukon
KEY WORDS:	ice, ice breaker	septique	lagoons, géotextiles

	Basu, Dr. Robin N. Institute for Space Research University of Calgary 2500 University Drive NW Calgary, AB, Canada T2N 1N4	Bell, Dr. Robert Mechanical and Aerospace Engineering Carleton University Ottawa, ON, Canada K1S 5B6	Belore, Mr. Randy C. 4062 Stonecrest Road Woodlawn, ON, Canada K0A 3M0
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FAX:	(403)289-3331	(613)788-5715	(613)
SUB-DISCIPLINES:	Environmental pollution, electronic systems, renewable energy		Oil spill cleanup R&D, impact assessment, GIS modelling
DESCRIPTION OF WORK:	Study of uses of renewable energy forms for survival in remote areas; Development of equipment for health care in remote areas; benefits of Yogic exercises for fitness in cold; Environmental changes in the arctic due to industrial activity; Cold clean energy.	Fatigue and fracture of marine materials. Testing and analytical fracture mechanics studies.	Oil spill clean up R&D, spill impact assessment, GIS database development and modelling.
FIELDWORK LOCATION:	N.W.T.; Alaska; Lapland		
KEY WORDS:	energy, health care, survival, pollution, yoga, measurements, communications	fatigue, fracture, offshore structures	oil spill cleanup, GIS, modelling

	Berner, Dr. Dale E. 601 Montgomery St. Suite 1400 San Francisco, CA 94111 USA	Bishnoi, Dr. Raj Department of Chemical and Petroleum Engineering University of Calgary Calgary, AB, Canada T2N 1N4	Bouchard, Gilles Department des Sciences Appliquées Université du Québec Chicoutimi, PQ, Canada G7H 2B1
TELEPHONE:	(415)398-8972	(403)220-6695	(418)545-5217
FAX:	(415)433-8189	(403)284-4852	(418)545-5012
SUB-DISCIPLINES:	Arctic offshore concrete structures-civil engineering	Petroleum, natural gas, gas hydrates	Aérodynamique, givre & verglas, fluides anti-givrants
DESCRIPTION OF WORK:	Optimization design work for the Amaudigak Oil Production Platform proposal for use in the canadian Beaufort Sea; Hibernia platform off Newfoundland.	Natural gas hydrates are known to occur naturally in the arctic regions of Canada. These reserves could become economically viable in the future. We are studying behaviour of gas hydrates and schemes of recovering natural gas from these reserves.	1) Etude des effects aérodynamiques reliés a l'utilisation de fluides anti-givrants pour les aéronefs. 2) Etude et mesure en soufflerie de pertes da portance pour les aéronefs, en présence de pluie verglasante
FIELDWORK LOCATION:	Canadian Arctic		Chicoutimi, Québec
KEY WORDS:	concrete technology, offshore oil/gas platforms	natural gas hydrates	anti-givrant, aéronautique, aérodynamique, givre, verglas, structure, portance, soufflerie

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FAX:	(613)992-8735	(613)992-8735	(613)233-4100
SUB-DISCIPLINES:	Metallurgy and material science	Metallurgy and materials science, metal fatigue, Arctic fracture mechanics, welding	
DESCRIPTION OF WORK:	High strength linepipe development (X-80); heat affected zone; properties of steels for marine applications.	Fatigue and fracture of welded joints for offshore and arctic structures and ships; materials selection and development of codes and standards for arctic and offshore structures and ships; hydrogen cold cracking and weldability of pipelines.	The development of temperature loggers for arctic use.
FIELDWORK LOCATION:			
KEY WORDS:	linepipe, steels	fatigue, fracture mechanics, we	logger, temperature, data recording

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FAX:	(613)992-8735	(403)270-2014	(604)688-5913
SUB-DISCIPLINES:	Metallurgy and materials science	Ice-machines, arctic engineering, ice-structure interaction	
DESCRIPTION OF WORK:	Weld-zone corrosion; this study of accelerated corrosion if weld metal and heat affected zones in ice-breaking ships has suggested strategies for construction and repair.	Data acquistion and analysis for physical properties of ice, ice failure mechanisms, mechanics of interactions between ice and structures, modelling and simulation of ice movement and behaviour.	The design of structures for drilling and production of oil and gas in arctic waters; fixed and floating structures, ships and offshore loading terminals.
FIELDWORK LOCATION:		Gulf of St. Lawrence; Beaufort Sea	Northern Canada; Alaska; USSR; China
KEY WORDS:	corrosion, metal, Canadian Coast Guard, icebreaker	ice, structures, properties, analysis, modelling, failure, mechanics	arctic structures, arctic operations

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TELEPHONE:	(306)955-5469	(613)232-1564	(709)737-4011
FAX:	(306)955-8710	(613)232-3509	(709)737-4706
SUB-DISCIPLINES:		Marine oil spills	
DESCRIPTION OF WORK:	Experimental and numerical modelling of undersea oilwell blowouts.	The fate and behaviour of, and countermeasures for arctic marine oil spills, including spills on/in/under sea ice and in-site burning.	Ice-structure interaction, design of ice-resistant structures, ice management.
FIELDWORK LOCATION:		Beaufort Sea	
KEY WORDS:	undersea oilwell blowout	oil spills, ice, behaviour, countermeasures, clean-up, burning	ice engineering, structure design

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TELEPHONE:	(403)920-8088	(709)772-2582	(403)286-3045
FAX:	(403)873-0159	(709)772-2462	(403)298-3533
SUB-DISCIPLINES:		Ice mechanics and ice/fluid flow problems	
DESCRIPTION OF WORK:	Design and construct; water/sewer disposal facilities, roads, land development, buildings, air tankers, base airports, fire towers, geotechnical investigations.	Dynamics of ice/structure interaction. Ice impact and indentation, penetration into ice cover. Field studies on ice impact and penetration. Effects of transient loading into ice.	Design and development of arctic oil exploration and production systems and structures.
FIELDWORK LOCATION:	N.W.T.	Resolute Bay, Resolute, N.W.T.	
KEY WORDS:	water, sewer, airports, firetowers, geotechnical investigations	ice, dynamic interaction, transient loading	icebreaker, drillships, exploration and production structures

	Clark, Dr. John I. Centre for Cold Ocean Resource Engineering Memorial University Newfoundland St. John's, NF, Canada A1B 3X5	Colbourne, Dr. Bruce Institute for Marine Dynamics St. John's, NF, Canada A1B 3T5	Cooke, William James Cooke Off-shore Resources Ltd Suite 800, 333 - 5th Avenue, S.W. Calgary, AB, Canada T2P 3B6
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FAX:	(709)737-4706	(709)772-2462	(403)265-4573
SUB-DISCIPLINES:		Design and testing ice-breaking vessels	Offshore drilling and production
DESCRIPTION OF WORK:	Research initiatives and geotechnical engineering research.	Research on development of ice-breaking ships and development of test and analysis methods for model scale-full scale correlations.	Planning of offshore drilling and development projects in Canada's Arctic and east coasts.
FIELDWORK LOCATION:	Northern Canada; USA; UK; Norway; France		
KEY WORDS:	marine geotechnical engineering, soil mechanics, foundation engineering	ice-breaking	offshore drilling

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FAX:	(403)253-2070	(403)284-7595	(403)492-2200
SUB-DISCIPLINES:		Ice mechanics, ice forces, offshore platforms	Mechanical, energy conservation in building
DESCRIPTION OF WORK:	Measurement of ice loads on seabreaking vessels' propellers and nozzles. Extreme wave heights in the Beaufort Sea. Measurement of pack ice stresses.	Research to improve predictions of ice load on structures and the design of structures to be economic and safe in ice infested areas.	Energy flows in housing; all aspects including alternate heating methods and heating system efficiencies; experimental investigations of energy flows in housing; energy conservation through the use of construction features and more efficient heating systems.
FIELDWORK LOCATION:	Beaufort Sea; Chukchi Sea	Beaufort Sea	Edmonton, Alberta
KEY WORDS:	ice loads	ice mechanics, ice load, offshore platforms	energy, housing, heating, efficiency, energy conservation

	Davediuk, Linda L. Stanley Associates Engineering Ltd. 10160 - 112 Street Edmonton, AB, Canada T5K 2L6	De Champlain, Mr. Viateur CEGEP de Matane 616, St-Rédempteur Matane, PQ, Canada G4W 1L1	Dello Stritto, Dr. Frank J. Mobil Research and Development Corporation 13777 Midway Road Dallas, TX 75229 USA
TELEPHONE:	(403)423-4777	(418)562-1240	(214)851-8324
FAX:	(403)424-8988	(418)566-2115	(214)851-8349
SUB-DISCIPLINES:		Génie maritime	
DESCRIPTION OF WORK:	Project planning, detailed design, construction inspection and construction management for environmental processes and infrastructure, municipal works, transportation systems, buildings and plants and project management.	Project d'un Institut de recherche en génie maritime et travaux sous-marins.	Ice loads on structures, iceberg properties, sea ice properties, ice environment; description and specification for offshore engineering application.
FIELDWORK LOCATION:			
KEY WORDS:	infrastructure, municipal works	travaux sous-marins	ice, ice properties, ice loads

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FAX:	(613)	(604)684-2357	(514)398-4896
SUB-DISCIPLINES:	Naval architecture		Human factors/ergonomics
DESCRIPTION OF WORK:	Management, naval architecture, marine engineering, software development.	Ice engineering, marine transportation, icebreaker operations, offshore structures, air cushion vehicles, oil interaction with sea ice, environmental impact.	Human factors/ergonomics applied to arctic marine navigation; wheelhouse design, work scheduling, task analysis, search and rescue, charts and displays.
FIELDWORK LOCATION:		Beaufort Sea; Alaska; Arctic Islands	Beaufort Sea; Lancaster Sound
KEY WORDS:	marine, software	oil spills, sea ice, icebreakers, ice, air cushion vehicles	icebreaking, navigation, ergonomics, arctic

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FAX:	(418)545-5012	(709)737-4706	(403)873-0230
SUB-DISCIPLINES:	Génie mécanique, givrage des structures		Project management, architectural and engineering
DESCRIPTION OF WORK:	Site de givrage en milieu naturel du Mont-Valin(Chicoutimi); givrage des structures; modelisation du givrage des lignes électriques; propriétés mecaniques du givre et du verglas.	Iceberg impact in full scale on a fixed structure. Model studies of action of icebergs, sea ice, pack ice on fixed and moored structures. Flow of crushed ice under an indentor, as a granular material. Probabilistic design loads.	Implementation of capital projects for a variety of different client departments.
FIELDWORK LOCATION:	Chicoutimi; Mont-Valin(Saguenay-Lac-St-Jean); Québec	Antarctic; Newfoundland; Beaufort Sea	N.W.T.
KEY WORDS:	glace atmosphérique, givre, verglas, givrage, structures, lignes électriques, propriétés mécaniques	ice-structure interaction, icebergs	project management

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FAX:	(709)737-4706	(403)248-2188	(613)992-8735
SUB-DISCIPLINES:	Cold regions engineering and offshore engineering	Civil (structures) geotechnical	Metallurgy and materials science
DESCRIPTION OF WORK:	Sea ice and iceberg management, iceberg forecasting, sea ice/iceberg morphology, iceberg deterioration, expert system for offshore operations and oil spill in ice.	Roof evaluating; yard survey including soil contaminants; wood pile soundness study; envelope air leakage study.	Properties of steels at low temperature; scatter in brittle behaviour.
FIELDWORK LOCATION:	Canada's east coast	Tuktoyaktuk, N.W.T.	
KEY WORDS:	ice management, ice forecasting, oil spill	wood rot, building envelope, structure, contaminants	low temperature, loading rate, steel

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FAX:	(403)248-2188	(902)426-7827	(613)954-1235
SUB-DISCIPLINES:	Permafrost and geotechnical engineering		
DESCRIPTION OF WORK:	Investigation of buried services in permafrost areas; foundations, piles, footings, ventilated and refrigerated pads; environmental assessments of arctic land fills, tanks farms and other industrial sites.	Arctic ice/water instrumentation, design and development.	Field and laboratory measurements of ice forces on structures; measurement of the mechanical properties of ice; analytical modelling of ice force generation on structures; development of equipment to measure ice forces in the field; characterizing broken ice masses.
FIELDWORK LOCATION:	N.W.T.	Eastern Arctic; East Coast	Beaufort Sea
KEY WORDS:	permafrost, foundations, EIS	instrumentation, ice growth, ice movement, temperature, measurement, current measurement	ice, interaction

	Furlong, Arnold R. Brooke Ocean Technology Ltd. P.O. Box 2200, DEPS Dartmouth, NS, Canada B3W 3Y3	Gagnon, Dr. Robert E. Institute for Marine Dynamics P.O. Box 12093 St. John's, NF, Canada A1B 3T5	Gautier, Mr. Charles Canarctic Shipping Ltd. Suite 1005 350 Sparks Street Ottawa, ON, Canada K1R 7S8
TELEPHONE:	(902)466-4075	(709)772-4294	(613)234-8414
FAX:	(902)466-4068	(709)	(613)234-9747
SUB-DISCIPLINES:	Oceanographic equipment design, marine handling systems	Ice physics and engineering	Ice navigation systems, image analysis, radar systems, hull forms, cargo management, propulsion systems
DESCRIPTION OF WORK:	The design and fabrication of oceanographic instrumentation and equipment; development of a system to tow instrumentation through broken ice.	Research to understand the processes involved in ice impact and indentation, ice friction and marine icing.	Development of ice nagivation technology; development of novel bow shape, advanced computerized ice navigation systems, hazardous ice detection radar equipment.
FIELDWORK LOCATION:	East Coast	Hobson's Choice Ice Island; Newfoundland	Lancaster Sound, Baffin Bay
KEY WORDS:	marine handling systems, towed systems, cable lubrication equipment, instrumentation	ice, impact, indentation, friction, ice breakers	ice, navigation, SAR, radar, icebreaker, satellite imagery, image analysis

	Gedeon, Dr. Steven A. Weld Institute of Canada 391 Burhamthorpe Road E. Oakville, ON, Canada L6J 6C9	Gerard, Dr. Robert Department of Civil Engineering University of Alberta Edmonton, AB, Canada T6G 2G7	Gin, Mr. J. M. Weatherhaven Resources Ltd 1975 Triumph Street Vancouver, BC, Canada V5L 1K6
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FAX:	(416)845-9886	(403)492-0249	(604)254-6676
SUB-DISCIPLINES:	Welding engineering/fracture		Cold weather shelter systems (transportation)
DESCRIPTION OF WORK:	Full scale testing of pipelines and steel plates. Effect of stress, flaws/defects, and welding on fracture and buckling.	Primary emphasis is on cold regions hydraulics and hydrology, with particular emphasis on ice processes on inland workers.	Design, development, manufacturing and testing of high performance portable shelter systems for polar use.
FIELDWORK LOCATION:		Hay River, N.W.T.; Dawson, Yukon	Antarctic; canadian Arctic
KEY WORDS:	welding, pipelines, fracture, brittle, flaws	rivers, lakes, flows, ice jams	portable shelters

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SUB-DISCIPLINES:	Marine works	Ice engineering, arctic structures and ship research, oil spill tech	Analysis of Arctic environment
DESCRIPTION OF WORK:	Design, construction and maintenance of marine facilities and works; including research and development on ice-structure interaction.	Field experiments, laboratory experiments, physical model testing and analytical modelling of ice, ships, structures and their interaction as well as collection of data on properties, physical interactions.	Arctic environment design summaries; Summaries of ice properties (mechanical geometries, dynamics); Assembling of ice-related databases; Analysis of ice regimes; Evaluation of transportation routes; Oil spill response in arctic environments.
FIELDWORK LOCATION:	Canadian Arctic	Canada's Arctic Offshore; East Coast	
KEY WORDS:	ports, docks, coastal works, dredging	icebreaker, ice loads, oil spills, structures, model testing	ice, databases, climate, oil spills scour

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SUB-DISCIPLINES:	Mechanical engineering, marine engineering	Glaciology(ice research), physics	Cold regions engineering
DESCRIPTION OF WORK:	Remotely operated underwater vehicles and autonomous underwater vehicles can be employed in under-ice surveys and arctic oil exploration. Methods are being developed for the computer-aided design of these vehicles and their simulation for pilot training in addition, advanced ROV and AUV autopilots have been designed and tested.	Characteristics of crack initiation and propagation in ice; theoretical investigation on the interaction between ice and structures.	Development and demostration of heat pump technology to chill building foundation on permafrost ground source heat. Pumps are used to recover heat from under slab-on-grade foundations and reusing the heat to reduce the heating requirement from conservational heating systems in the building.
FIELDWORK LOCATION:	Woods Hole Oceanographic Institute, Massachusetts		Ross River, Yukon; Old Crow, Yukon; Aupaluk, Québec
KEY WORDS:	underwater vehicles, computer-aided design, hydrodynamic testing, autopilots, pilot simulators	ice pressures, mechanical properties, crack formation	heat pump, chilled foundation, permafrost

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FAX:	(709)753-2209	(613)234-9747	(519)888-6197
SUB-DISCIPLINES:	Ocean engineering/ice engineering	Sea ice monitoring	
DESCRIPTION OF WORK:	Engineering and environmental studies on icebergs and sea ice on Canada's East coast.	The study of the distribution of sea ice and its impact on marine navigation; satellite, airborne radar and ship based sensors are used to develop ship-board ice navigation systems and to contribute to historical ice studies.	Transportation, permafrost engineering, roads.
FIELDWORK LOCATION:	East coast	Canadian Arctic Islands	
KEY WORDS:	icebergs, sea ice	ice nagivation, sea ice, synthetic aperture radar	Transport, permafrost, roads, materials

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FAX:	(403)248-2188	(604)253-5023	(416)978-7320
SUB-DISCIPLINES:	Permafrost engineering, foundations, slopes stability, thaw-settlement	Naval architecture	Environmental engineering, municipal engineering
DESCRIPTION OF WORK:	Field tests, monitoring research on performance, laboratory studies on permafrost, foundations, slope stability and thaw-settlement.	Marine transportation, ocean engineering, resource exploration and extraction, fisheries services.	Research work with graduate students (approx. 35 in past 20 years) on environmental engineering projects in communities of the Northwest Territories, Yukon Territories, Alaska, Greenland, Scandinavia.
FIELDWORK LOCATION:	N.W.T.		N.W.T.
KEY WORDS:	permafrost, foundations	marine transportation, exploration, marine environment	water supply, waste, disposal

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FAX:	(713)940-3751	(709)772-2462	(403)873-2163
SUB-DISCIPLINES:	Heat transfer, geotechnics, sea ice and structural mechanics	Marine dynamics	Civil engineering, geotechnical engineering
DESCRIPTION OF WORK:	Development of arctic technology to support exploration and production of petroleum resources in the cold regions of the world; areas of interest induce soil, ice, structure interactions that involve frozen, freezing, or thawing soil/ and/or sea ice; methods of investigation include numerical simulations and empirical studies in the laboratory and the field.	Interactions of vessels and structures on ice, sea ice studies	Terrain analysis, site investigations, design of structural foundation for permafrost conditions, mine wastes slope stablization, design of roads, bridge foundations etc.
FIELDWORK LOCATION:	Alaska; Northern Canada; Beaufort Sea, Chukchi Sea		N.W.T.; Northern Yukon; 50 Hamlets; mine sites; highway projects locations
KEY WORDS:	permafrost, frost heave, sea, ice, pipelines, wells, offshore production structures	icebreaking, sea ice, model ice	permafrost, terrain, highways, foundations, mine, wastes

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FAX:	(416)978-7423	(604)942-7577	(514)982-6127
SUB-DISCIPLINES:		Robotic submersibles	Geomorphology, glaciology
DESCRIPTION OF WORK:	Developing a new type of ice radar to measure thickness of Arctic ice.	Development of teleoperated and autonomous submersibles. Work includes vehicle and manipulator control systems, autonomous control architectures, fault detection and diagnosis, power usage management. Also includes inertial and acoustic navigation, optical fibre and acoustic telemetry.	Permafrost engineering foundations roads, airfields, pipelines.
FIELDWORK LOCATION:			Arctic Canada; Alaska; Axel Heiberg Research Station
KEY WORDS:	radar, ice radar, ice mapping	submersibles, manipulators, ROV's, AUV's, control systems, navigation, fault detection, fault diagnosis, optical fibres, acoustic telemetry	permafrost, pipelines

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FAX:	(709)772-2462	(709)737-4042	(613)996-8902
SUB-DISCIPLINES:			Remote sensing, detection
DESCRIPTION OF WORK:	Icebreaking ships, model testing, ice/structure interaction.	Ice-structure interaction, ice mechanics, design loads for ships and structures in ice.	Theory and application of search and screening; development of shipshore thermal and LLTV sensor packages, sweep width detection experiments, radar transponders, hypothermic, SAR and SLAR airborne.
FIELDWORK LOCATION:	Coastal Newfoundland; Resolute Bay	Hobson's Choice Ice Island, Newfoundland	
KEY WORDS:	ice breakers, ice structure interaction	ice mechanics, fracture, damage mechanics, creep and viscoelasticity, probal [illegible] estimates of ice loads	search and rescue, detection, thermal imaging, datum marker, SAR

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FAX:	(709)737-4706	(403)244-0075	(403)265-0499
SUB-DISCIPLINES:		Hydraulics of ice covered rivers and sea arms, ice forces, ice scour	Ice surveillance
DESCRIPTION OF WORK:	Research in target detection and tracking in coastal area using a long range high frequency radar. Ships and ice hazards can be tracked up to 400 km from shore over a 120 degree sector. Radar is also capable of ocean environmental measurements.	A study of ice jamming and floods has yielded contributions to various stages of kinetics of river and sea ice, which are being processed further. Measurements from jams of polar ice by icebreaker are applied to determine the limits of ice loads and ice breaking energies. Further development is possible through participation in a study of a crossing of an ice covered sea arm.	Application of SAR to provide ice surveillance for Canadian Coast Guard; ice interpretation; ice modelling.
FIELDWORK LOCATION:	Cape Race, Newfoundland	Beaufort Sea, Davis Strait	Iqaluit; Resolute Bay; Inuvik
KEY WORDS:	high frequency radar, ocean measurements, ice detection	ice, northern river, hydraulics	ice, interpretation, modelling, SAR

	Krolik, Jeffrey L. Marine Physical Lab Scripps Institute of Oceanography San Diego, CA 92152 USA	Kuzyk, Dr. William 23 Lambert Dr. Nepean, ON, Canada K2H 5Y3	Ladanyi, Dr. Branko Northern Engineering Centre (CINEP), Ecole Polytechnique C.P. 6079, Station A Montréal, PQ, Canada H3C 3A7
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FAX:	(619)	(613)	(514)340-4477
SUB-DISCIPLINES:	Oceanography, ocean instrumentation		Permafrost engineering
DESCRIPTION OF WORK:	Acoustic propagation studies, sensor array signal processing, sonar systems in both arctic and non-arctic ocean environments.	Research pertaining to both ground vehicles and space craft.	Study in laboratory and in situ of mechanical properties of frozen soils and ice in connection with northern construction problems, with special reference to the design of building foundations in permafrost, construction of roads and airstrips and the determination of ice pressure on structures.
FIELDWORK LOCATION:			Inuvik; Igloolik; Ungava; Alaska; Svalbard
KEY WORDS:	sensor arrays, signal processing, sonar	ground vehicles, space craft	permafrost, foundations, ice, mechanical behaviour

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FAX:	(418)545-5012	(204)261-4639	(403)296-3030
SUB-DISCIPLINES:	Aérodynamique, givre, verglas, fluides anti-givrants	Meteorological, atmospheric optics	
DESCRIPTION OF WORK:	1) Etude des effects aérodynmiques reliés a l'utilisation de fluides anti-givrants pour les aéronefs. 2) Etude et mesure en soufflerie des pertes de portance pour les aéronefs, en présence de pluie verglas ante.	Refraction of light by the atmosphere. The strong temperature inversions that frequently occur in the Arctic produce refractive effects that can severely distort the images of distant objects. The research covers atmospheric modelling, ray tracing and image analysis, applied toward explaining the observed phenomena.	Development of oil field offshore east coast Canada.
FIELDWORK LOCATION:	Chicoutimi (Québec)	Resolute Bay, N.W.T.; Tuktoyaktuk, N.W.T.	East coast
KEY WORDS:	anti-givrant, aéronautique, aérodynamique, givre, verglas, structure, portance, soufflerie	atmospheric refraction, meteorological optics, mirages	oil, gas

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FAX:	(416)336-4819	(613)993-5022	(403)492-2200
SUB-DISCIPLINES:	Ice	Radar engineering, radar remote sensing, sea ice	Heat transfer, thermodynamics
DESCRIPTION OF WORK:	Development of techniques and technology to make navigation in ice covered and ice infested waters more efficient and safer.	Synthetic aperture radar development, SAR polarimetry, system development and applications; microwave signatures of sea ice using active and passive remote sensing; vector wind fields over oceans from SAR and radar altimetry.	Ice formation and prevention; growth and decay of ice in air, water, soil and organisms; Alternative energy; Hydrothermal engine development.
FIELDWORK LOCATION:	Lancaster Sound		
KEY WORDS:	ice, radar, navigation	sea ice, SAR, radar	ice, energy

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FAX:	(418)545-5012	(613)993-5022	(613)236-5614
SUB-DISCIPLINES:	Aérodynamique, givre et verglas, fluides anti-givrants		
DESCRIPTION OF WORK:	1) Etudes des effects aérodynamiques reliés a l'utilisation de fluides anti-givrants les aéronefs. 2) Etude et mesure en soufflerie des pertes de portance pour et aéronefs, en présence de pluie verglasante	Synthetic aperture radar imagery of sea ice	Studies in arctic transportation, environmental impact, power sources for remote locations, waste heat recovery, design of arctic systems including: under ice vehicles, submarines, icebreaker, barges.
FIELDWORK LOCATION:	Chicoutimi (Québec)		
KEY WORDS:	anti-givrant, aéronautique, aérodynamique, givre, verglas, structure, portance, soufflerie	synthetic aperture radar (SAR)	transportation, energy, EIA, icebreaker

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FAX:	(604)688-5913	(613)545-2964	(613)
SUB-DISCIPLINES:		Ice mechanics	Civil engineering
DESCRIPTION OF WORK:	Design of structures for use in ice infected waters, in calculation of ice loads, in analysis of structures for ice loading and monitoring systems for ice loading.	Arctic construction and operations with emphasis on risks and safety; Arctic marine engineering; ice-structure interaction; Probabilistic modelling.	Performance of concrete against ice abrasion and impact.
FIELDWORK LOCATION:	Arctic Canada; Alaska; USSR; China		Nanisivik
KEY WORDS:	arctic structures, ice mechanics dynamics	risk analysis, ice modelling	concrete, ice abrasion, ice impact

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SUB-DISCIPLINES:	Automotive, fuels and lubricants	Ice engineering, computer modelling	Géotechnique
DESCRIPTION OF WORK:	Design, development, testing, adaptation of vehicles, fuels and lubricants for use in arctic and subarctic environments.	Ice structure interaction modelling, ice scour anaylsis, fracture mechanics, constituive modelling, probability and statistics, ice strength assessments, environmental monitoring and modelling, dynamic modelling, offshore, coastal and arctic engineering, project management, and pipeline design.	Étude du comportement des membranes d'argiles soumises au gel. Study of clay liners submited to freeze and thaw process.
FIELDWORK LOCATION:	Timmins, Ontario	Beaufort Sea; High Arctic; East Coast	Québec
KEY WORDS:	fuels, lubricants	ice, structures, pipeline, scour, modelling, fracture	membranes, clay liners, freeze

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FAX:	(403)237-9898	(403)237-9898	(613)992-8735
SUB-DISCIPLINES:			Metallurgy materials and science, welding, NDE, fracture resistence
DESCRIPTION OF WORK:	Offshore and arctic engineering and applied research; ice mechanics, ice structure design and construction, casting, structural design, project management.	Ice sciences, construction of ice roads and ice islands for arctic exploration, calculation of ice loads on structures, formulation of design criteria and development and installation of ice load monitoring devices.	Development of welding procedures and consumables for the joining of high strength ship steels for arctic ships and submarines; evaluation of heat affected zone structure, properties in high strength weldments.
FIELDWORK LOCATION:		Arctic Canada	
KEY WORDS:	offshore, ice, ice mechanics	ice islands, ice loads, instrumentation	steel, welding, fracture

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FAX:	(403)289-6662	(403)264-3744	(403)492-0249
SUB-DISCIPLINES:	Geotechnical engineering	Waste treatment and disposal	Geotechnical engineering
DESCRIPTION OF WORK:	Applied research into: characterization of permafrost properties and distribution into Mackenzie Delta; chilled and hot casing and permafrost interaction; subsurface thermal regimes.	Characterization of waste. Performance of waste treatment technology.	Permafrost, pipelines, mining, natural hazards.
FIELDWORK LOCATION:	Mackenzie Delta		Western Arctic.
KEY WORDS:	permafrost, casing, subsidence, pipelines, gas hydrates	waste treatment	permafrost, pipelines, mining

	Muggeridge, Dr. Derek B. President, Off-shore Design Associates Ltd. Box 320, R. R. #1 Portugual Cove, NF, Canada A0A 3K0	Murray, Dr. Alan Fleet Technology Ltd. 16 - 6325 11th Street, S.E. Calgary, AB, Canada T2H 4L6	Nasseri, Dr. Touraj Centre for Frontier Engineering Research 200 Karl Clark Road Edmonton, AB, Canada T6N 1E2
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FAX:	(709)737-4042	(403)253-2070	(403)450-3700
SUB-DISCIPLINES:	Ocean engineering		
DESCRIPTION OF WORK:	Design, research and development capabilities in wave and ice structure interaction, offshore structures, ice mechanics, model testing, offshore safety and aquaculture.	Measurement of ice loads on seabreaking vessels' propellers and nozzles. Extreme wave heights in the Beaufort Sea. Measurement of pack ice stresses.	Research and technology development in engineering materials and systems for operation in arctic and cold climate environments; structural systems and components used for exploration, production and transportation of arctic and offshore resources.
FIELDWORK LOCATION:	East coast Canada and Beaufort Sea	Beaufort Sea and Chukchi Sea	
KEY WORDS:	offshore structures, ice, structure interaction	ice loads	structures, offshore resources

	Newbury, Scott Institute for Marine Dynamics St. John's, NF, Canada A1B 3T5	Nixon, Dr. J.F. Esso Resources Canada Ltd 3535 Research Road, N.W. Calgary, AB, Canada T2L 2K8	Noble, Peter G. Suite 570 1441 Creekside Drive Vancouver, BC, Canada V6J 4S7
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FAX:	(709)772-2462	(403)284-7589	(604)738-4410
SUB-DISCIPLINES:	Ocean engineering	Permafrost, geotechnical analysis	Marine engineering, naval architecture
DESCRIPTION OF WORK:	Research into the interaction of ice and ships of structures.	Geotechnical aspects of Northern pipelines; frost heave in soils; interaction of freezing and thawing soils with structures; geotechnical analysis, effects of climate warming.	Emphasis on innovative marine technology applied to specialized ships such as icebreakers, research vessels, passenger ships, ferries and cable ships; frontier offshore exploration.
FIELDWORK LOCATION:			
KEY WORDS:	icebreaker, ice	northern pipelines, permafrost	ship design, icebreaker

	North, Henry Lakehead University 955 Oliver Road Thunder Bay, ON, Canada P7B 5E1	Parsons, Dr. Bruce L. P.O. Box 12093 Station A St. John's, NF, Canada A1B 3T5	Pilkington, Dr. Roger G. Canatec Consultants Ltd. 110 - 3553 31st Street, N.W. Calgary, AB, Canada T2L 2K7
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FAX:	(807)343-8023	(709)772-2462	(403)289-0465
SUB-DISCIPLINES:	Mechanical	Naval architecture, material science	
DESCRIPTION OF WORK:	Sonic drilling and sonic pile driving; permafrost, placer gold sampling, seismic shot hole.	Mechancial testing of sea ice in the Arctic and in lab at the Institute for Marine Dynamics.	Arctic engineering, research and development; structure design criteria; ice data bases; ice and climate analyses; vessel and ice analyses; specialized micro-software.
FIELDWORK LOCATION:		Resolute, N.W.T.; Newfoundland	Arctic; Beaufort Sea
KEY WORDS:	sonic drilling, pile driving	ice, fracture, icebreaker, ice load	ice

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FAX:	(709)737-4706	(613)952-8341	(613)992-8735
SUB-DISCIPLINES:	Geotechnical engineering	Building science and infrastructure science	Metallurgy and materials science
DESCRIPTION OF WORK:	Offshore marine geotechnology, particularly with applications to centrifuge modelling.	A wide variety of applied research and development; in building performance, durable materials and systems, energy conservation, environmental protection, ice structural interaction, roads and bridges.	Corrosion studies on welds for arctic icebreakers; materials performance studies for arctic pipelines.
FIELDWORK LOCATION:	Labrador; Grand Banks; St. Lawrence Estuary		
KEY WORDS:	centrifuge modelling	building performance, durable materials, environment ice	welding, corrosion, fracture, pipelines, steel

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FAX:	(358)0-4513419	(403)450-3700	(416)635-5353
SUB-DISCIPLINES:	Naval architecture, offshore engineering	Structural engineering, material engineering, safety and risk	Remote sensing of ice
DESCRIPTION OF WORK:	Research in ice loads on structures and structural response	Materials and structurals systems for arctic offshore development; production wells through permafrost; marine corrosion of metals and welds in arctic waters; building systems for cold regions.	Development of airborne sea ice thickness sensor; remote sensing data processing, integration and display; relationship of remotely sensed information to ice properties.
FIELDWORK LOCATION:	Baltic; Okhotk Sea; Arctic Oceans	Beaufort Sea	Canadian Arctic, east coast
KEY WORDS:	ice loads, icebreaker	safety and risk, offshore structures	sea ice, ice thickness, radar

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FAX:	(403)282-8406	(514)848-2809	(613)954-1235
SUB-DISCIPLINES:	Fluid dynamics		
DESCRIPTION OF WORK:	Modelling of sea water flow under ice keels (in the Arctic ocean). Modelling of subsea oilwell blowouts.	Ice jam analysis, flood control ice modelling; 2-D model developed for ice formation and decay including a K-E turbulent model; 2-D finite element model for ice cover structural and strength behaviour, crack and max stressline for ice breaking management.	Laboratory and field investigations of the characteristics and behaviour of broken ice masses such as ice ridges and grounded rubble fields; analytical modelling of the generation of ice ridges and extreme ice features.
FIELDWORK LOCATION:			Beaufort Sea
KEY WORDS:	ice keel, well blowout, fluid flow	ice, sea ice, contaminants, heat transfer, computer modelling	ice, properties

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SUB-DISCIPLINES:	Permafrost, ice	Arctic Instrumentation	Marine (maritime) works
DESCRIPTION OF WORK:	Research on performance of pile foundations; study of the behaviour of saline permafrost and spray ice; application of spray ice to construction of ice bridges.	Development of air and surface deployable instruments for measuring environmental data on, in and under ice covered waters; techniques include satellite communications and long life (excess of one year) deployment.	Design, construction and maintenance of marine facilities and works; ice-structure interaction.
FIELDWORK LOCATION:	Komakuk Beach; Tuktoyaktuk; Iqaluit		Canadian Arctic
KEY WORDS:	piles, saline permafrost, spray ice	instrumentation, acoustics, ice growth, data acquisition	arctic marine works, coastal works, ice-structure interaction

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FAX:	(204)275-3773	(306)665-6263	(613)628-2265
SUB-DISCIPLINES:	Geotechnical		
DESCRIPTION OF WORK:	Mechanical properties of frozen soil and ice including spray ice for offshore islands; physical behaviour of piled foundations in permafrost.	High altitude balloon atmospheric research; instrumentation used for atmospheric research.	Development of acoustic flowmeters for remote areas.
FIELDWORK LOCATION:	Beaufort Sea	Alert, N.W.T.	
KEY WORDS:	frozen soil, ice, foundations	balloon, instrumentation	flowmeters

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FAX:	(604)738-4410	(902)420-7551	(613)992-8735
SUB-DISCIPLINES:	Marine engineering	Wastewater treatment (environmental engineering)	Materials
DESCRIPTION OF WORK:	Engineering services in cold region marine technology, arctic offshore research and computational hydrodynamics.	Research at Whitehorse (field monitoring) and in Halifax (laboratory model study) for developing design guidelines for sewage lagoons in cold climates by measuring solar energy levels; quantum radiometer was used to measure solar radiation.	Research on metal technology
FIELDWORK LOCATION:		Whitehorse, Yukon	
KEY WORDS:	offshore, hydrodynamics	lagoon, sewage, solar radiation	steel, fracture, fatique, corrosion

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FAX:	(613)952-7679	(604)688-5913	(613)992-8735
SUB-DISCIPLINES:		Structural engineering	Fracture mechanics, corrosion, welding, fabrication for cold climates
DESCRIPTION OF WORK:	Measurement of ice forces on structures in a laboratory environment; measurement of the mechanical properties of ice; development of model ice to correctly simulate sea ice at a reduced scale; laboratory characterization of the properties of broken ice masses.	Design of arctic offshore structures, participation in formulation of design criteria and standards.	Generation of engineering data and scientific knowledge on materials selection, fabrication and performance for engineering structures operating in the Arctic and other cold environments design data.
FIELDWORK LOCATION:			Arctic Canada
KEY WORDS:	ice, modelling, properties	arctic structures, ice mechanics, dynamics	steel, fracture, corrosion

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FAX:	(613)995-3456	(403)248-2188	(403)282-8406
SUB-DISCIPLINES:	Mine design, heat recovery, strata-mechanics	Hydraulic design, river engineering, water resources planning, impact assessments	River ice mechanics
DESCRIPTION OF WORK:	Technology of improved mining technology for more cost-effective mining under arctic conditions.	Design of river training structures for bridges, pipelines and urban development; hydrologic assessments for water availability, bridges and culvert; design of diversion channels and dams for mining developments; stream restoration guidelines for placer mining.	Computer simulation of motion of broken ice in rivers leading potentially to ice jams.
FIELDWORK LOCATION:	Little Cornwallis Island, N.W.T.; Baffin Island, N.W.T.; Contwoyto Lake, N.W.T.	Northern Canada; Alaska; USSR	
KEY WORDS:	strata mechanics, mine design	bridges, mining, erosion, pipelines, EIA	computer simulation, broken ice, ice jams, rivers

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SUB-DISCIPLINES:	Metallurgy and materials science		Ice, structural and marine propulson instrumentation
DESCRIPTION OF WORK:	Fatigue of welded joints for offshore structures; stress corrosion cracking in pipelines.	Permafrost, gas hydrates, sea ice.	Instruments for ice parameters (pressure, temp, movement); instruments for ice structure integration (force, structure response, geotechnical response) instruments for icebreaker performance (hull structure propulsion)
FIELDWORK LOCATION:			Canadian Arctic
KEY WORDS:	welding, fatique, corrosion, pipelines, steels	permafrost, gas hydrates, sea ice	data acquisition, ice force, ice pressure, ice breaker, ice response

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TELEPHONE:	(519)823-1311	(902)772-4797	(709)737-8352
FAX:	(519)823-1316	(902)772-2462	(709)737-4706
SUB-DISCIPLINES:	Microclimate studies, physical modelling	Ice engineering	Instrumentation
DESCRIPTION OF WORK:	Snow-drifting accumulation studies are carried out using scale models and numerical analysis techniques combined with on-site practical experience; study results are used to predict where drifting snow will collect around buildings and on highways; mitigative measures are also tested and optimum solutions for facility locations, snow fences and building design determined.	Research to determine ice forces on structures and ships.	Investigation of sea ice and icebergs and their impediment of ocean resource development; the measure of ice related phenemena, including remote operation and data acquisition.
FIELDWORK LOCATION:	Baker Lake, Point Hope, Rankin Inlet, N.W.T.; Alaska	Beaufort Sea; Resolute Bay; Newfoundland	Labrador; Newfoundland
KEY WORDS:	snow-drifting, snow fencing	ice structure, icebreaker	motion sensor, accelerometers, data logger, data acquisition, ice loads

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TELEPHONE:	(613)788-5713	(403)248-4331	(403)450-3300
FAX:	(613)788-5715	(403)248-2188	(403)450-3700
SUB-DISCIPLINES:	Off-road transportation	Permafrost, ice engineering	
DESCRIPTION OF WORK:	Transportation technology, off-road transport, air cushion technology, terrain evaluation computer-aided methods for design evaluation of ground vehicles.	Research on ice rubble mechanics; permafrost behaviour; foundations in permafrost; geothermal analysis (numerical); frozen soil testing.	Structural engineering related to cold regions and offshore developments at temperature range +40 degrees to -60 degree celsius.
FIELDWORK LOCATION:			
KEY WORDS:	transportation technology, air cushion technology, terrain evaluation	ice, permafrost, foundations	offshore, structures

ENVIRONMENTAL SCIENCES -- SCIENCES DE L'ENVIRONNEMENT

	Addison, Dr. Richard F. Bedford Institute of Oceanography Dartmouth, NS, Canada B2Y 4A2	Auchterlonie, Ms. Sandy Box 1866 Yellowknife, NT, Canada X1A 2P4	Barber, Mr. David G. Earth Observations Laboratory Department of Geography University of Waterloo Waterloo, ON, Canada N2L 3G1
TELEPHONE:	(902)426-3279	(403)873-8903	(519)885-1211 ext.2689
FAX:	(902)426-7827	(403)873-8368	(519)888-6768
SUB-DISCIPLINES:	Environmental toxicology, organochlorine distribution	Community based research	Wildlife habitat, climate studies
DESCRIPTION OF WORK:	Analysis of organochlorine residues in marine mammals. Development of methods to assess sublethal effects of organic pollutants.	Community level investigation of resource use and modern day lifestyles.	Remote sensing of atmosphere-ice-ocean interface processes; studies of how microwave length imagery interacts with ice and snow throughout the seasonal changes in the arctic pack ice.
FIELDWORK LOCATION:	Western Arctic	Mackenzie Valley	Lancaster Sound; Barrow Strait; Foxe Basin
KEY WORDS:	DDT, PCB, seals, beluga, MFO, EROD	resource use, lifestyle	ice, remote sensing, seasonal changes

	Barrie, Dr. Leonard A. Atmospheric Environment Service 4905 Dufferin Street Downsview, ON, Canada M3H 5T4	Batteke, Mr. John P.H. 7011 Edgemont Drive, N.W. Calgary, AB, Canada T3A 2H9	Bégin, Dr. Yves Centre d'études nordiques et département de géographie Université Laval Sainte-Foy, PQ, Canada G1K 7P4
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FAX:	(416)739-4521	(403)	(418)656-2809
SUB-DISCIPLINES:	Atmospheric Chemistry	Environment industrial waste management, economics, regional development	Biogéographie, géomorphologie, écologie végetale
DESCRIPTION OF WORK:	Coordinator of Canadian Arctic Air Pollution Research Program studying pathways of chemicals through the arctic atmoshpere and chemical/physical transformations.	Managing of the industry-environment-economics interface relative to development projects.	Reconstitution des fluctuations à long terme des niveaux des grands lacs subarctiques; colonisation végetale sur les rives des côtes en émersion; dynamique des populations ligneuses et perturtations allogènes.
FIELDWORK LOCATION:	Alert; Mould Bay; Igloolik; Cree Lake	Northern Canada	Québec subarctique
KEY WORDS:	arctic haze, pollution, polar sunrise, ozone destruction		population, végétales, niveaux marins, niveaux lacustres

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TELEPHONE:	(416)739-4948	(604)531-9769	(604)681-8828
FAX:	(416)739-4821	(604)531-1553	(604)681-6825
SUB-DISCIPLINES:	Ozone, stratospheric	Fisheries management, aquatic ecology	Oil and chemical spill control, environment audits
DESCRIPTION OF WORK:	Canadian national ozone monitoring network.	Fish resource inventories and impact assessments for oil and gas fields, mines, roads, and pipeline developments.	Oil and chemical spill emergency control planning and modelling, environment audits, pollution control equipment evaluation and design engineering.
FIELDWORK LOCATION:	Canadian Arctic; Alert; Resolute	Western Arctic; Beaufort Sea; Northern Manitoba; Keewatin District; Boothia Peninsula; Melville Island; Bathurst Island; Cornwallis Island	
KEY WORDS:	ozone	fish, benthic invertebrate, impact assessments	oil spill, modelling

	Bergeron, Luc Environment Canada Conservation et Protection 5ième étage, 1141 route de l'Eglise Sainte-Foy, PQ, Canada G1V 4H5	Berkes, Dr. Fikret Natural Resources Institute University of Manitoba Winnipeg, MB, Canada R3T 2N2	Bjerkelund, Ingrid 503-21 Water Street Vancouver, BC, Canada V6B 1A1
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FAX:	(418)649-6213	(204)261-0038	(604)684-2357
SUB-DISCIPLINES:		Natural resources, human ecology	Environmental analysis and impact
DESCRIPTION OF WORK:	Les sous-desciplines se rapportent aux préoccupations d'Environnement Canada relatives aux eaux douces, aux oiseaux migrateurs, au milieu marin, aux contaminants à la faune, à la loi Canadienne de la protection de l'environnement et aux impacts cumulatifs.	Living resources management (fisheries and wildlife), with the participation of local users; Economic development based on such resources; impacts of hydroprojects and other industrial development.	Assessing environmental impact; sensitivity of the arctic environment to oil spills; arctic environmental design summaries; assembling ice-related databases; analysis of ice regimes.
FIELDWORK LOCATION:	Nord Québécois	James Bay, Ontario	
KEY WORDS:	oiseaux migrateurs, mercure, faune, eaux douces, impacts cumulatifs	common property resources, human ecology, traditional ecological knowledge, fisheries, impact assessment	ice, databases, oil spills, sensitivity

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TELEPHONE:	(403)287-2345	(613)237-4843	(403)920-8558
FAX:	(403)287-1355	(613)	(403)920-2720
SUB-DISCIPLINES:		Oil spill research and technology	Resource Management, Land Use Planning, Environmental Planning
DESCRIPTION OF WORK:	Custom design of reverse osmosis systems for the production of potable water, ultrafiltration system for the concentration of organic, viruses, bacteria.	Chemical and physical properties of arctic crude oils. Fate and behaviour of spilled petroleum. Testing of spill counter-measure products.	Community and regional based land use planning involving all interests - communities, Inuit-Eskimo people and organizations, Federal and Territorial Government Departments, industry and the scientific community; emphasizing the integration of local traditional anecdotal information with scientific knowledge of the total environment, including both renewable and non-renewable resources, with built in conflict resolution inherent to the on-going synergetic process and sustainable development.
FIELDWORK LOCATION:		Shingle Point, Yukon	Nunavut region, arctic islands
KEY WORDS:	ultrafiltration, reverse osmosis, water purification, filters	oil spills, crude oil	land use planning, Inuit, sustainable development

	Bowen, Mr. Jonathan C. Indian and Northern Affairs P.O. Box 126 Norman Wells, NT, Canada X0E 0V0	Braune, Dr. Birgit M. Canadian Wildlife Service National Wildlife Research Centre Hull, PQ, Canada K1A 0H3	Brown, Dr. Allister 502 Kapilano 100 West Vancouver, BC, Canada V7T 1A2
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FAX:	(403)587-2928	(819)953-6612	(604)925-1366
SUB-DISCIPLINES:	Land use management		
DESCRIPTION OF WORK:	Inspect land use operations re: acceptable land use practices. Investigate pollution infractions. Make recommendations re: environmental land use operating conditions.	Monitoring contaminants in waterfowl and risk to the human consumer.	Environmental audits. Soils and water pollution studies.
FIELDWORK LOCATION:	District of Mackenzie, N.W.T.		British Columbia; Alberta; Ontario
KEY WORDS:	land use	contaminants, waterfowl	soils, water pollution

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FAX:	(403)284-7595	(902)426-7827	(416)739-4521
SUB-DISCIPLINES:			Impacts of climate change
DESCRIPTION OF WORK:	Dispersant mechanisms, trajectory modelling, barrier failure studies chemical modification of spilled oil, shoreline restoration.	The pelagic ecology of seabirds; the effects of oil and other pollutants on marine birds.	Project leader for multidisciplinary study on impacts of global warming scenarios on the Mackenzie Basin.
FIELDWORK LOCATION:		Northwest Atlantic Ocean, eastern Arctic	Mackenzie Basin, N.W.T.
KEY WORDS:	oil spill, dispersants, clean-up, shoreline	seabirds, oil pollution	global warming, impacts, climate change and variability

	Cornett, Mr. Dan 100 Hamilton Blvd Whitehorse, YT, Canada Y1A 5L7	Court, Gordon S. Department of Zoology University of Otago Dunedin, New Zealand	Cumiski, Mr. Ornest T. Box 3404 Olds, AB, Canada T0M 1P0
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FAX:	(403)667-7962	(03)	(403)556-4698
SUB-DISCIPLINES:		Environmental toxicology, avian biology	
DESCRIPTION OF WORK:	Regulatory initiatives, scientific advisors, emmission control, pollution/wastewater technologies environmental audits.	Environmental pollutants in arctic and antarctic birds, especially highly migratory species. Ecology of arctic raptors and antarctic seabirds.	The acquisition of land for major surface disturbances. This also includes the reclamation and restoration of energy disturbed lands.
FIELDWORK LOCATION:	Whitehorse, Yukon	Keewatin District, N.W.T.; Ross Island, Antarctica	
KEY WORDS:	pollution abatement, wastewater treatment	toxicology, ecology, Arctic, Antarctic, raptors, seabirds	surface disturbances, restoration

	Davey, Cynthia J. P.O. Box 2502 Cochrane, ON, Canada P0L 1C0	Delecki, Dr. Andrew Z. 435 Ellice Avenue Winnipeg, MB, Canada R3B 1Y6	Delisle, Dr. Claude E. Ecole Polytechnique de Montréal C.P. 6079, Succ. A Montréal, PQ, Canada H3C 3A7
TELEPHONE:	(705)272-6146	(204)983-0666	(514)340-4962
FAX:	(705)	(204)983-3154	(514)340-4026
SUB-DISCIPLINES:	Forest ecology	Remote sensing	
DESCRIPTION OF WORK:	Research on effects of disturbance on boreal forest structure at the landscape level; also effects of disturbance (whether natural or anthropogenic) on biodiversity in the boreal forest.	Research and development for remote sensing EIS and lake surfaces condition using electromagnetic radiation at various frequency ranges.	Les organismes aquatiques du lac du Cratère du Nouveau-Québec; la capacité de neutralisation acides des sédiments.
FIELDWORK LOCATION:	Boreal forest; Northern Ontario; N.W.T.		Nouveau-Québec
KEY WORDS:	disturbance ecology, biodiversity, boreal forest	remote sensing, EIS	Omble chevalier (arctic char), métaux lourds, sediments, acid neutralisation, pH

	D'Entremont, Dr. Andre A. Environment Canada Environmental Protection Box 370 Yellowknife, NT, Canada X1A 2N3	Doubleday, Ms. Nancy C. 141 Aylmer Ave Ottawa, ON, Canada K1S 2Y1	Duffy, Dr. Patrick J.B. 5839 Eagle Island West Vancouver, BC, Canada V6W 1V6
TELEPHONE:	(403)873-3456	(613)233-9596/563-2642	(604)921-6119
FAX:	(403)873-8185	(613)234-1991	(604)921-6664
SUB-DISCIPLINES:	Environmental effects monitoring	Ecology, renewable resource management, international conservation programs	Environmental impact assessment
DESCRIPTION OF WORK:	Major objectives include: to access the effectiveness of environmental monitoring methods; to determine the effectiveness of regulatory controls on tailings disposal systems; sediment core samples were collected for metal analysis; benthic grab samples were collected to determine changes in species composition and abundance.	Implementation of conservation strategy in circumpolar region; development and implementation of cooperative renewable resource regimes; monitoring and environmental assessment applications.	Resource management and environmental impact assessment and policy.
FIELDWORK LOCATION:	FInner and Outer Sun Bay, Contwoyto Lake		Yellowknife, N.W.T.
KEY WORDS:	heavy metals, sediments, benthic invertebrate, mines	conservation strategies, renewable resources	resource management, forestry, environmental impact assessment

	Duperreault, Mr. Fernand P. Box 208 Tumbler Ridge, BC, Canada V0C 2W0	Duval, Dr. Wayne S. ESL Environmental Sciences Limited 407 - 1155 Robson Street Vancouver, BC, Canada V6E 1B5	Edlund, Dr. Sylvia A. Geological Survey of Canada 601 Booth Street Room 539 Ottawa, ON, Canada K1A 0E8
TELEPHONE:	(604)242-5221	(604)687-3385	(613)995-4882
FAX:	(604)	(604)687-0171	(613)996-9990
SUB-DISCIPLINES:	Watershed management		Bioclimatology, Geobotany
DESCRIPTION OF WORK:	Open pit coal mine.	Environmental studies in marine and freshwater environments, research and monitoring program design, and environmental impact assessment	Regional mapping of vegetation, in relation to material and climate of Fosheim Peninsula and Northern Elles Park; co-ordinator geological survey of Canada's High Arctic global change observatory Fosheim Peninsula, a multidisciplinary study (hydrology, climate vegetation processes and geomorphic.
FIELDWORK LOCATION:		N.W.T.; Yukon; Western Arctic; Beaufort Sea; Mackenzie Delta	Ellesmere Island; Fosheim Peninsula; Northern Ellesmere Island National Park
KEY WORDS:		impact assessment	monitoring, global change, vegetation, bioclimatology, environmental change

	Eedy, Dr. Wilson 14 Abacus Road Brampton, ON, Canada L6T 5B7	Enns, Vic Environment Canada Box 6010 Whitehorse, YT, Canada Y1A 5L7	Epp, Mr. Helmut N.W.T. Centre for Remote Sensing Dept. of Renewable Resources Box 1320 Yellowknife, NT, Canada X1A 2L9
TELEPHONE:	(416)458-4044	(403)667-3403	(403)920-3329
FAX:	(416)458-7303	(403)667-7962	(403)873-0221
SUB-DISCIPLINES:	Wildlife management		Remote Sensing, Geographic Information Systems
DESCRIPTION OF WORK:	Environmental impact assessment of mines in N.W.T.; hazardous waste management planning for N.W.T.; wildlife surveys, resource use economic surveys.	Studies on environmental impacts of air/water/land point source pollution.	Mapping of vegetation types for land use planning, mineral exploration, forest fire mapping, wildlife habitat mapping.
FIELDWORK LOCATION:	Yellowknife; Coppermine River; Baker Lake; Northern Saskatchewan; Northern Manitoba	Yukon	Western Arctic
KEY WORDS:	wildlife, environmental impact, mining, waste	pollution	remote sensing, image analysis, geographic information systems, resource mapping

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FAX:	(613)592-3378	(403)873-6924	(416)630-0506
SUB-DISCIPLINES:		Wildlife management, environmental toxicology, archaeology	Environmental studies
DESCRIPTION OF WORK:	Telemetry surveillance of environment.	General wildlife, fauna and botany observations, accumulate baseline data	Management of environmental issues, risk analysis (for industrial developments) comprise the major areas in which we offer services.
FIELDWORK LOCATION:		Thelon Game Sanctuary, N.W.T.	
KEY WORDS:	radar, IR, telemetry, satellite	Project "OASIS"	industrial development

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FAX:	(403)233-1118	(613)991-9485	(514)398-3594
SUB-DISCIPLINES:			Northern studies, biogeography, disturbance ecology
DESCRIPTION OF WORK:	Environmental impacts of drilling operations in northern environments.	Research into chemical and oil spills.	Studying patterns of long-term tundra recovery in anthropogenic habitats of the Canadian eastern Arctic.
FIELDWORK LOCATION:		Baffin Island; Beaufort Sea	Canadian Arctic Archipelago
KEY WORDS:	drilling, EIS	oil spills	disturbance ecology, human impact, vegetation, high arctic, biogeography, long-term studies

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FAX:	(902)494-3736	(403)492-1153	(613)996-3726
SUB-DISCIPLINES:	Plant ecology, environmental toxicology	Common-property resource management, renewable resources management	Geochemistry (applied)
DESCRIPTION OF WORK:	Effects of climate and pollution stress or vegetation; plant community change along climate gradients; effect of $S0_2$, acidity, metals and crude oil or plants.	Adaptive management for a wild reindeer population, (Belcher Islands, N.W.T.) compatible with Inuit principles of living resources management; co-operative management(co-management) regimes for marine mammals.	Helicopter supported collection of stream sediment and water samples at an average density of sample 13 km; samples prepared and analyzed for up 40 variables including Cu, Pb, Zn, Hg, Au, As., etc., in sediment and U,pH and F in water.
FIELDWORK LOCATION:	Western Arctic, Ellesmere Island	Belcher Island, N.W.T.; Japan; Alaska; Hudson Bay	Yukon
KEY WORDS:	pollution, climate gradients, acidity	common property resources, traditional knowledge, sustainable development, conservation strategies, adaptive management	stream sediment, stream water, multi-element analysis

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FAX:	(613)234-1991	(306)586-9862	(902)42292235
SUB-DISCIPLINES:	Ecology, wildlife management, mammalogy, ornithology, icthyology	Wildlife management, geographic information systems	Ice and seabed interaction, marine geophysics, GIS digital mapping
DESCRIPTION OF WORK:	Environment issues relevant to Inuit homeland	Mapping home range of moose; digital terrain modelling of moose habitat.	Environmental studies, acquisition of marine geologic and geophysical data; oceanographic studies for harbour developments; equipment design and development; coastal studies.
FIELDWORK LOCATION:	N.W.T.	Southern and southwestern Yukon	Beaufort Sea; Hudson Bay; Labrador Sea; Arctic Ocean
KEY WORDS:	Inuit	moose, caribou, predator, prey, GIS, home range	coastal studies, GIS, mapping

	Gillam, Dr. Andrew H. 101 - 9865 Saanich Road Sidney, BC, Canada V8L 3S3	Goodarzi, Dr. Fariborz F. 3303-33rd Street, N.W. Calgary, AB, Canada T2L 2AY	Goodman, Dr. Ron H. 3535 Research Road N.W. Calgary, AB, Canada T2K 2L8
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FAX:	(604)655-7131	(403)292-5377	(403)284-7595
SUB-DISCIPLINES:	Environmental chemistry, chemical oceanography		Oceanography
DESCRIPTION OF WORK:	Environmental effects of offshore oil and gas operations. biodegradation of petroleum hydrocarbons; marine environmental quality (sediments).	Coal composition, geology, environment of deposition and utilisation; hydrocarbon, thermal maturity, source rock potential, (optical and geochemical method) basin analysis; environment, impact of fossil fuel utilization.	Oil spill response in arctic whales.
FIELDWORK LOCATION:	Beaufort Sea	Arctic Islands; Yukon; N.W.T.; British Columbia; Alberta	
KEY WORDS:	oil and gas, hydrocarbon degradation, sediments	coal	oil spill, arctic

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FAX:	(403)269-5245	(416)336-4989	(403)873-5763
SUB-DISCIPLINES:	Wildlife management, environmental protection planning, reclamation, public liaison	Aquatic quality	Environmental contamination and aquatic ecology
DESCRIPTION OF WORK:	Environmental impact assessment focussing primarily on territorial and wetland ecosystems and management.	The flux and processes of trace organic contaminants are being investigated especially with respect to the concentration in snow, trends in desposition in glaciers and fate of contaminants upon snow- melt.	Multi-media assessment of aquatic contamination and recovery from industrial development utilizing water, sediment and biotic sampling.
FIELDWORK LOCATION:	Alberta; British Columbia; Yukon; N.W.T.; Alaska	Ellesmere Island; Cornwallis Island	N.W.T.
KEY WORDS:	wetlands, EIA	snow chemistry, pesticides, organochlorines, PCBs	aquatic contamination

	Haertling, Mr. Joachim W. 493 Dupont Toronto, ON, Canada M6G 1Y6	Hallam, Mr. Robert L. 409 Granville Street Vancouver, BC, Canada V6C 1T2	Hamlet of Resolute Bay Box 127 Resolute Bay, NT, Canada X0A 0V0
TELEPHONE:	(416)536-1137	(604)685-0545	(819)252-3616
FAX:	(416)	(604)685-0541	(819)252-3749
SUB-DISCIPLINES:		Environmental impact assessment of major developments in sensitive environment	Wildlife Management
DESCRIPTION OF WORK:	Contamination of soils, sediments and water by leachates from waste disposal sites; waste evaluation and management; soil chemistry (primarily heavy metals).	Environmental impact assessments of major developments in sensitive environments, entailing hydrology, water quality, fisheries and wildlife components; intergrated waste management and water management plans compatible with northern and alpine and arctic environments.	Municipality
FIELDWORK LOCATION:	Iqaluit; Pangnirtung; Pond Inlet	British Columbia, Yukon, N.W.T.	Resolute Bay, N.W.T.
KEY WORDS:	waste disposal, leachates, metals	environmental impact, waste management	wildlife

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TELEPHONE:	(403)420-5159	(217)244-3712	(403)979-2260
FAX:	(403)	(217)333-6540	(403)979-4429
SUB-DISCIPLINES:	Pipelines and environment, permafrost, regulation monitoring	Geochemistry	Resource management
DESCRIPTION OF WORK:	Numerous mining studies on Norman Wells pipelines.	Three composite sediment cores were collected from two lakes to assess the total burden and historical flux of anthropogenic toxic organic compounds in the southeastern Hudson Bay region. Results will show the importance of the atmosphere as a pathway of these compounds from mid-latitudes to the southern Arctic.	Energy exploration and production; region planning and tourism development.
FIELDWORK LOCATION:	Norman Wells	Sanikiluaq, N.W.T.	Western Arctic
KEY WORDS:	thaw sediment, frost heave, terrain monitoring	lake sediments, organochlorine compounds, atmospheric deposition	energy, tourism

	Hodge, Mr. R.A. School of Planning McGill University 4th floor, 815 Sherbrooke St. W. Montreal, PQ, Canada H3A 2K6	Hodgins, Dr. Donald O. Seaconsult Marine Research Ltd. 820 - 1200 West 73rd Avenue Vancouver, BC, Canada V6P 6G5	Hoff, Dr. Raymond M. Atmospheric Environment Service R. R. # 1 Egbert, ON, Canada L0L 1N0
TELEPHONE:	(514)398-4076	(604)266-9135	(705)458-1141
FAX:	(514)398-7372	(604)266-8855	(705)458-1143
SUB-DISCIPLINES:		Engineering design criteria, waves, sediment transport	Remote sensing applied to air pollution meteorology; air chemistry.
DESCRIPTION OF WORK:	Research on the regional economy and environmental quality interface.	Research on measurement and modelling of waves and currents and resulting sediment suspension and transport processes research into wave, wind, and current criteria for offshore development.	Air sampling of Arctic haze, studies of arctic haze/hydrometeors, studies of chlordane in Arctic; intergrating nephelometry.
FIELDWORK LOCATION:	Yukon; Alaska	Mackenzie Delta; Beaufort Sea; Lancaster Sound	Alert; Mould Bay; Igloolik
KEY WORDS:	indicators, regional economy, environmental quality	waves, currents, sediment transport	Arctic haze, organochlorines, air chemistry

	Holman Community Corporation General Delivery Holman, NT, Canada X0E 0S0	Hoogerbrug Mr. Robert H. 151 Laverock Avenue Richmond Hill, ON, Canada L4C 4K1	Hubert, Mr. Benjamin A. Box 277 Yellowknife, NT, Canada X1A 2N2
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FAX:	(403)	(416)739-4281	(403)873-3297
SUB-DISCIPLINES:		Ozone-depletion, stratospheric trace gases	Resource management, land use planning, wildlife management, environmental assessment
DESCRIPTION OF WORK:	Organization for the implementation of land rights (Inuvialuit) for the community of Holman; environmental information, natural resources.	Stratospheric ozone-depletion studies; altitide profiles of atmoshperic emission in the 5 to 14 micrometer wavelength region, and nitrogen dioxide concentrations; measure ozone and nitric acid altitude profiles; polar stratospheric clouds.	Assessment and evaluation in resource management, land use planning, wildlife management, and environment assessment.
FIELDWORK LOCATION:	Holman, N.W.T.	Alert; Eureka; Saskatoon, Saskatchewan	N.W.T.
KEY WORDS:	Inuvialuit, natural resources	ozone, nitrogen dioxide, stratosphere	land use, wildlife

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FAX:	(819)997-0511	(609)520-0971	(403)265-0499
SUB-DISCIPLINES:	Sustainable Development		Ice reconnaissance
DESCRIPTION OF WORK:	Identification of appropriate methods for implementation of sustainable development in northern Canada.	Mining/resource development in arctic/subarctic chimes; salmon management; socio-economic impacts of development; hydro electric projects oil pollution.	Remote sensing applied to ice reconnaissance
FIELDWORK LOCATION:		Northern Québec	Arctic Canada; USSR
KEY WORDS:	sustainable development, integration	mining, socio-economic impacts, hydro electric	radar, ice reconnaissance

	Inuit Tapirisat of Canada Suite 510, 170 Laurier Ave. W. Ottawa, ON, Canada K1P 5V5	James, Lorne Pollution Control Division Dept. of Renewable Resources Box 1320 Yellowknife, NT, Canada X1A 1H2	Johnson, Ms. Martha C. Dene Cultural Institute Box 207 Yellowknife, NT, Canada X1A 2N2
TELEPHONE:	(613)238-8181	(403)873-7654	(403)813-6617
FAX:	(613)234-1991	(403)873-0221	(403)873-3867
SUB-DISCIPLINES:	Wildlife management, ecology, environmental impact, policy and programs		
DESCRIPTION OF WORK:	Responsible for all issues, research, communication, etc., which occur in Canadian Inuit homeland; represents the national interests of Inuit in Labrador, Nunavut, northern Québec, Keewatin including northern Manitoba, Baffin and Kitikmeot (Nunavut), and the Inuvialuit settlement area.	Sampling and analysis of snow cores for arsenic concentration; soil and bedrock sensitivity to acidic deposition; sensitivity of surface waters to acidic inputs; waste liquid petroleum; recycling of beverage containers; compositing; recycling opportunities; spill containment and clean-up; research on arctic haze.	Documentation of the traditional environmental knowledge of the Dene, to develop a community based research model and to determine ways to integrate traditional knowledge and modern science.
FIELDWORK LOCATION:	Keewatin; Kitikmeot; Nunavut	N.W.T.	Fort Good Hope
KEY WORDS:	Inuvialuit	sensitivity, wastes, recycling, clean-up	traditional knowledge, community based research, Dene

	Jones, Dr. Hughes W. 374 Viewmount Drive, RR#2 Tan Tallon, NS, Canada B0J 3J0	Kerr, Dr. James B. Atmospheric Environment Service 4905 Dufferin Street Downsview, ON, Canada M3H 5T4	Koshinsky, Mr. Gordon D. Freshwater Institute 501 University Crescent Winnipeg, MB, Canada R3T 2N6
TELEPHONE:	(902)826-7922	(416)739-4626	(204)983-5257
FAX:	(902)826-7922	(416)739-4281	(204)983-6285
SUB-DISCIPLINES:	Oilspill detection and tracking under ice	Stratospeeric ozone research	
DESCRIPTION OF WORK:	Remote detection of oil spills trapped under ice.	Monitoring stratospheric ozone and other trace gas constituents for the purpose of determining trends in stratospheric composition and radiation balance; measurements are used to understand ozone depletion processes.	Research on fish habitat in central and arctic Canada, including a program of studies on the dynamics of arctic marine ecosystems.
FIELDWORK LOCATION:	Norman Wells, Beaufort Sea, N.W.T.	Alert, Resolute, N.W.T.	Barrows Strait; Resolute Bay; Hudson Bay
KEY WORDS:	oil spills, remote sensing	stratospheric, radiation, ozone, depletion	habitat, ecosystems

	Krouse, Dr. Roy Dept. of Physics and Astronomy University of Calgary Calgary, AB, Canada T2N 1N4	Lapp, Mr. David J. 904 - 280 Albert Street Ottawa, ON, Canada K1P 5G8	Lavoie, Mr. Claude Centre D'Etudes Nordiques Université Laval Sainte-Foy, PQ, Canada G1K 7P4
TELEPHONE:	(403)220-5871	(613)236-5876	(418)656-3340
FAX:	(403)289-3311	(613)238-1734	(418)
SUB-DISCIPLINES:	Food webs, element cycling, meteorology, geology, climatology	Impact assessment, remote sensing, ice climatology and arctic marine engineering	Ecologie
DESCRIPTION OF WORK:	Stable istope techniques are being used to study current and past precipitation; geochemistry of stratified lakes; cycling of elements such as sulphur; food webs; oil and gas occurrences; ancient ocean seep communities and metal sulphide deposits.	Field surveys for collection of environment data and assessment of shipping routes, environment impact assessment of marine activities, calibration, validation and interpretation of airborne and satellite remote sensors for ice and ocean applications, assessment of remote sensing technology, historical studies of arctic and antarctic ice conditions.	Reconstitution des paléoenvironnements subarctiques.
FIELDWORK LOCATION:		Canadian Arctic, east Greenland Sea, Barents Sea	Rivière Boniface; Québec subarctique
KEY WORDS:	food webs, paleoclimate, sulphur cycle, oil and gas, stratified lakes	remote sensing, environmental impact assessment, ice, navigation	paléoenvironnements

	Lee, Dr. Kenneth Dept. of Fisheries and Oceans C.P. 1000 Mont-Joli, PQ, Canada G5H 3Z4	Levy, Eric M. Bedford Institute of Oceanography P.O. Box 1006 Dartmouth, NS, Canada B2Y 4A2	Little, Ms. Lois M. Box 1866 Yellowknife, NT, Canada X1A 2P4
TELEPHONE:	(418)775-6592	(902)426-3658	(403)873-8903
FAX:	(418)775-6542	(902)426-7827	(403)873-8368
SUB-DISCIPLINES:	Microbial ecology	Marine chemistry	Resource management, socio-economic assessment
DESCRIPTION OF WORK:	Scientific research on natural oil and gas seeps in Arctic waters, development of oil and spill countermeasures, biodegradation of oil, bacterial productivity, and benthic productivity.	Distribution of hydrocarbons, natural seepage, in Eastern Canadian Arctic waters.	Restructuring plan and development manual for Development Impact Zone Societies (DIZ Groups) to improve local input into industrial resource development decision making; socio-economic impact of the proposed Mackenzie Valley Natural Gas Pipeline; evaluation of the Northern Land Use Planning Program; intervention into the Report of Northern Diseased Wood Bison.
FIELDWORK LOCATION:	Eastern Arctic	Baffin Island; Lancaster Sound	N.W.T.
KEY WORDS:	hydrocarbons, bacteria, oil spills, EIA	hydrocarbons, seepage	pipeline, resource development, land use

	Llewellyn, Dr. Edward J. Institute of Space and Atmospheric Studies University of Saskatchewan Saskatoon, SK, Canada S7N 0W0	Lockhart, Dr. W.L. 501 University Crescent Dept. of Fisheries and Oceans Winnipeg, MB, Canada R3T 2N6	Loken, Dr. Olav H. 1170 Bonnie Crescent Ottawa, ON, Canada K2C 1Z5
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FAX:	(306)966-6400	(204)983-6285	(613)
SUB-DISCIPLINES:	Aeronomy	Biology, fisheries	Science and technology transfer
DESCRIPTION OF WORK:	Upper atmospheric composition studies; atomic oxygen and ozone, aurora and airglow excitation.	Contaminants in arctic fish and marine mammals; sub-lethal effects of contaminants; fluxes of hydrocarbons to lakes.	Environment impact assessment relating to research and development activities in the north.
FIELDWORK LOCATION:	Churchill, Manitoba; Alert, N.W.T.	Slave River; Lake Hazen; Saquaqjuac	
KEY WORDS:	oxygen, ozone, aurora	hydrocarbons	EIA, environmental protection

	Loring, Dr. Douglas H. PCSI Marine Chemisty B.I.O Dartmouth, NS, Canada B2Y 4A2	Lowe, Dr. Robert P. Department of Physics University of Western Ontario London, ON, Canada N6A 3K7	Lush, Dr. Donald L. 14 Abacus Road Brampton, ON, Canada L6T 5B7
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FAX:	(902)426-2256	(519)661-3129	(416)458-7303
SUB-DISCIPLINES:	Geochemistry, environmental chemistry	Atmospheric physics, ozone studies	Hydrology, trace element flux, fisheries aquatic ecology
DESCRIPTION OF WORK:	Study of abundance and distribution of trace metals as well as the factors that control them in estuarine and coastal sediments; development for new analytical techniques for the determination of trace metals in the marine environment.	Ground based opticial studies of middle atmoshperic processes, part of programs of Canadian network for space research.	Collection of meteorological and runoff data, hydrology, soil, vegetation, wildlife, water, sediment, fish type, species and chemical data ecosystem modelling for trace element and radionuclide flux; archaeology studies.
FIELDWORK LOCATION:		Mould Bay	Central Keewatin
KEY WORDS:	trace metal, marine sediment, suspended matter, environmental contamination	middle atmospheric, ozone	trace elements

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TELEPHONE:	(403)920-8152	(416)978-4019	(418)831-2930
FAX:	(403)920-4669	(416)978-8605	(418)831-2930
SUB-DISCIPLINES:	Plant ecology, environmental protection, permafrost terrain		Evaluation environnementale
DESCRIPTION OF WORK:	Evaluation and mitigation of impacts of northern land use activities in permafrost terrain, with emphasis on northern pipelines, climatic perspective of impacts, current and future.	Fate and effects of toxic chemicals, modelling; oil pollution studies.	Mise en oeuvre du processus d'évaluation; révision d'études d'impacts; participation aux comités d'évaluation.
FIELDWORK LOCATION:	Mackenzie Valley		
KEY WORDS:	permafrost, pipelines, climate change	contaminants, models, bioaccumulation	processus, gestion, impacts, EIS

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TELEPHONE:	(403)248-4331	(403)873-7775	(403)486-7060
FAX:	(403)248-2188	(403)873-0293	(403)486-7070
SUB-DISCIPLINES:	Land reclamation, impact assessment	Wildlife habitat management	Legal surveys, community development, municipal utility servicing, environmental clean up
DESCRIPTION OF WORK:	Revegetation and reclamation research including; plant species survival and growth, shrub propagation and suitability, erosion control materials and methods, native species reestablishment; assessment of impacts of snow road construction, industrial chemicals and pipeline ditch construction on plants and active layer water movement.	Habitat inventory and assessment using remote sensing techniques and geographic information systems technology.	Preparation of community general development plans and utility servicing strategies, construction project management for Arctic DND facilities, regulatory affairs services for arctic oil and gas production and transportation, setting up of computer based geographic/land information systems, legal and construction surveys, environmental clean up management, tourism and economic opportunity studies.
FIELDWORK LOCATION:	Mackenzie River Valley; Mackenzie River Delta; Arctic Islands	Arctic and subarctic regions, N.W.T.	N.W.T.; Yukon
KEY WORDS:	revegetation, erosion, succession, methanol, pipeline, EIA	wildlife habitat, remote sensing, GIS	community development, regional planning, transportation, GIS, pipelines

	McEwen, Dr. Donald J. University of Saskatchewan Saskatoon, SK, Canada S7N 0W0	McMillan, Dr. Ann C. Atmospheric Environment Service Environment Canada 4905 Dufferin Street Downsview, ON, Canada	Mehta, Vijay S. Canada Research Institute 190 Bronson Avenue Ottawa, ON, Canada K1R 6H4
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FAX:	(306)966-6400	(416)739-4288	(613)234-2107
SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Atmospheric and space research; auroral and magnetospheric research; study of the polar atmospheric environment.	Program manager of "toxics" program which includes work on northern contaminants.	Regulations/guidelines for mineral development; environmental compatability; aboriginal issues including self-determination (self-government); transportation (aviation planning).
FIELDWORK LOCATION:	Wollaston Lake, Saskatchewan; Eureka, Resolute, N.W.T.		N.W.T.; McKinley Harbour, Tuktoyaktuk
KEY WORDS:	aurora, polar cap, atmospheric dynamics		self-determination; aboriginal, mineral development

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FAX:	(403)248-2188	(604)662-3457	(514)398-7437
SUB-DISCIPLINES:	Environmental toxicology, impact assessment, environmental protection	Socio-economic impact assessment, energy studies	
DESCRIPTION OF WORK:	Site assessment; environmental baseline studies; protection planning	Socio-economic impact analysis of major development projects; energy policy analysis and demand forecasting; biomass conversion and alternative transportation fuel technology.	Biogeochemistry of peatlands; controls on rates of plant production, tissue decomposition and peat accumulation; water quality, especially dissolved organic carbon; fluxes of gases from northern wetlands, especially methane and carbon dioxide; pollution-acid precipitation impacts and lake eutrophication.
FIELDWORK LOCATION:			Schefferville/Nouveau-Québec; James Bay Lowlands
KEY WORDS:	EIA	biomass, energy, EIS	soils, peatlands, gas emissions, water quality

	Morris, Dr. Douglas W. Lakehead Centre for Northern Studies Thunder Bay, ON, Canada P7B 5E1	Morrison, Ronald N. Delcan Corporation 2001 Thurston Drive P.O. Box 8004 Ottawa, ON, Canada K1G 3H6	Mulvihill, Mr. P.R. C.P. 657 Succ. Cote des Neiges Montréal, PQ, Canada H3S 2V4
TELEPHONE:	(807)343-8162	(613)738-4160	(514)341-8299
FAX:	(807)343-8360	(613)739-7105	(514)
SUB-DISCIPLINES:	Population, evolutionary and community ecology	Geomorphology, wildlife ecology, botany and community consultation	Sustainable development
DESCRIPTION OF WORK:	Northern research emphasizes studies of habitat selection of small mammals and its relationship to population process and community organization.	Ecological land classification and environmental baseline studies in the Beaufort Sea region, Ellesmere Island and Auyuittuq national park reserves. Environmental assessment on northern Baffin and southeastern Melville Island.	Social scientific research in northern Québec and the Northwest Territories; application of traditional knowledge in resource management.
FIELDWORK LOCATION:	Coast of Hudson Bay; Central Labrador; Northern Ontario	Tanquary Fiord; Pangnirtung; Nanisivik; Arctic Bay; Pond Inlet; Rea Point	Northern Québec; N.W.T.; Nunavut
KEY WORDS:	evolution, habitat selection, community	land classification, environmental assessment	sustainable development, traditional knowledge

	Nelson, Dr. Gordon Faculty of Environmental Studies University of Waterloo Waterloo, ON, Canada N2L 3G5	Nowak, W.S.W. P.O. Box 8 Suite 10, R.R. # 2 Paradise, NF, Canada A0A 2E0	Panipak, Tomasie N. Hamlet of Clyde River Box 120 Clyde River, NT, Canada X0A 0E0
TELEPHONE:	(519)885-1211 ext.4555	(709)737-8191	(819)924-6388
FAX:	(519)746-2031	(709)	(819)924-6293
SUB-DISCIPLINES:		Northern resource development	
DESCRIPTION OF WORK:	Land use planning and management, environmental and landscape history, resource survey, evaluation and policy studies, heritage studies.	Research in marine and non-marine research development in Newfoundland and Labrador, and in Iceland.	Mayor of Clyde River; wildlife management issues.
FIELDWORK LOCATION:	Northern Canada	Labrador; Newfoundland	Clyde River, N.W.T.
KEY WORDS:	environment, land use planning	fisheries, resource development	wildlife

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FAX:	(519)661-3292	(418)723-7234	(519)824-5730
SUB-DISCIPLINES:	Wildlife management, climate change, remote sensing	Environmental chemistry	Ground freezing, soil structure, root-soil interactions
DESCRIPTION OF WORK:	Remote sensing of arctic vegetation; mapping of wildlife habitat; wetland plant ecology; tree line.	Oil biodegradation under arctic conditions; mercury distribution in the James Bay.	Freezing induced redistribution of solutes in soil water; influence of freeze thaw cycles on soil physical properties; root soil interactions under frozen conditions; spatial variability of soil displacements caused by frost heave.
FIELDWORK LOCATION:	Mackenzie Delta; Devon Island	Saguenay Fjord; James Bay	
KEY WORDS:	remote sensing, wetlands, vegetation, muskox, habitat	mercury, oil, biodegradation, benthic	frost heave, ice lensing, soils

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FAX:	(403)232-6950	(416)739-4521	(403)
SUB-DISCIPLINES:		Atmospheric chemistry, long range transport of air pollutants, greenhouse gasses	Conservation education
DESCRIPTION OF WORK:	Transportation of dangerous goods training; course development.	Background air pollution observatory; atmospheric chemistry research; monitoring of greenhouse gasses and aerosols and long range transport of air pollutants including toxic organics.	Promotion of conservation ethic amongst the peoples residing in Sahtu District of Inuvik region; facilitate renewable resource development initiatives at the community level; experimental trapline, education, humane trapping techniques.
FIELDWORK LOCATION:		Alert, N.W.T.	Inuvik
KEY WORDS:	dangerous goods	arctic haze, polar sunrise, greenhouse gasses, LRTAP	humane trapping, furbearers, conservation

	Porter, Mr. Edward L. Box 370, 9th Floor, Bellanca Bldg. Yellowknife, NT, Canada X1A 2N3	Pretes, Michael Arctic Institute of North America University of Calgary Calgary, AB, Canada T2N 1N4	Price, Mr. Graham E. 922 Crescent Road, N.W. Calgary, AB, Canada T2M 4A8
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FAX:	(403)873-8185	(403)282-4609	(403)233-0878
SUB-DISCIPLINES:	Environmental toxicology	Resource management, economic development	Environmental law
DESCRIPTION OF WORK:	Application of monitoring methods to assess impacts on aquatic ecosystems from mining operations.	Studies of resource management techniques in the circumpolar Arctic and Sub-Arctic, focusing on sustainable resource use and development, and associated environmental and social problems, also impact of climate change, pollution, habitat destruction on development.	Analysis of legislation in the Northwest Territories pertaining to land use.
FIELDWORK LOCATION:	N.W.T.	Alaska; Yukon; N.W.T.; Lapland; Finland; USSR	
KEY WORDS:	contamination, mining, benthic invertebrate	natural resources, energy, oil and gas, minerals, forestry, economic development, environment, policy	land use, legislation

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FAX:	(403)250-1308	(604)363-4513	(204)275-6352
SUB-DISCIPLINES:	Wildlife management	Chemistry	Native use of wildlife
DESCRIPTION OF WORK:	GIS, mammal research, biophysical mapping, impact assessment, grizzly and black bear ecology, land planning, modelling.	Contaminant studies designed to distinquish between local and long range (LRTAP) input and to evaluate the impact of contaminants on the Arctic ecosystem.	Native land use, land claims, and native use of natural resources.
FIELDWORK LOCATION:		Shingle Point; Cape Parry; Lady Franklin Point; Cambridge Bay; Shepherd Bay; Hall Beach; Dewar Lakes; Cape Dyer	N.W.T.; Greenland; Alaska; Siberia
KEY WORDS:	grizzly bear, GIS, EIA, ELC	contaminants, LRTAP, impact, bioaccumulation	land use, Inuit, Eskimo, wildlife, land claims

	Riewe, Dr. Roderick R. Canadian Circumpolar Institute G-213 Biosciences Building University of Alberta Edmonton, AB, Canada T6G 2E9	Rigby, Mr. Bruce G. P.O. Box 429 Pangnirtung, NT, Canada X0A 0R0	Roe, Mr. Nick A. IRIS Environment Systems Suite 226 222 - 16 Ave., N.E. Calgary, AB, Canada T2E 1J8
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FAX:	(403)492-1153	(819)473-8612	(403)230-1047
SUB-DISCIPLINES:	Wildlife management	Environmental education, renewable resource management, traditional knowledge	Geographic information systems (GIS)
DESCRIPTION OF WORK:	Arctic ecology of northern mammals; native land use; northern wildlife management.	Research into the appropriate development of Northern renewable resources, focussing on the integration of Euro-Canadian approaches to science and management with Inuit traditional environmental knowledge.	Impact assessment for projects; policy review and analysis related to environmental issues and sustainable development.
FIELDWORK LOCATION:	N.W.T.; Greenland; Alaska; Siberia	Baffin Island; Eastern Arctic	
KEY WORDS:	land use, Native, Inuit	traditional knowledge, resource management, tourism, geographic information systems	sustainable development, environmental impact assessment, (GIS)

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FAX:	(613)995-4700	(204)983-6285	(403)495-2615
SUB-DISCIPLINES:	Regulatory development	Environmental toxicology	Environmental protection and technology
DESCRIPTION OF WORK:	Research and development directed towards the up-dating of the arctic shipping, pollution prevention regulations and the safe and efficient use of marine transportation in the Canadian Arctic.	Basic research on physiology and behaviour of arctic freshwater and marine species, applied to methodology for holding, culturing and testing of arctic fishes and macroinvertebrates in lower-latitude laboratories; sublethal effects of man-made chemicals and physical perturbations.	Oil spill effects and recovery; spill countermeasures effects and evaluation; biological and ecotoxicological testing methods.
FIELDWORK LOCATION:		Resolute Bay, Saquagjuac, Chesterfield Inlet.	
KEY WORDS:	regulations, ice	behaviour, toxicity testing	oil spills

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FAX:	(604)	(819)997-0511	(403)298-4125
SUB-DISCIPLINES:	Environment degradation, oil spill, oil degradation	Arctic contaminants, fate and effects in the environment	Environmental planning and project management
DESCRIPTION OF WORK:	Specializing in environmental degradation associated with oil exploration, industrialization, sewage and mining activities; emphasis on the role natural microorganisms play in ameliorating human and industrial activities.	Research and monitoring on both national and international levels to deal with the problem of uptake of contaminants (mostly organochlorines e.g. PCB,s, pesticides, residues) in the arctic food chain and the potential effects on human health.	Arctic sea port development; Beaufort Sea environmental impact assessment.
FIELDWORK LOCATION:	Inuvik; Tuktoyaktuk; Yellowknife	Canadian North	Canadian Arctic
KEY WORDS:	biodegradation, oil spill, mining, microorganisms	contaminants, PCBs, dioxins, SST, organochlorines	arctic port, development, EIA

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FAX:	(819)	(604)922-4686	(416)840-6128
SUB-DISCIPLINES:		Oil and chemical spill response	
DESCRIPTION OF WORK:	Land management, land use, waste management, land claims, resource policy, legislation and regulation	Oil spill contingency planning, response and cleanup.	Heavy metals in Beaufort Sea; fish communities habitat in Yukon and N.W.T. rivers and tributaries; fish communities habitat in Churchill River tributaries; caribou monitoring, small mammals, birds in Keewatin, N.W.T.
FIELDWORK LOCATION:			Canadian Arctic
KEY WORDS:	land use, land claims	oil spills	fisheries, contaminants, caribou

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FAX:	(403)429-2127	(403)873-8368	(403)873-0205
SUB-DISCIPLINES:		Resource management, economic impact	Aboriginal ecology, biogeography
DESCRIPTION OF WORK:	Highway impacts, road impacts in western Arctic; surface reclamation Yellowknife region; dredging impacts; Mackenzie Delta area; land use planning Mackenzie-Beaufort area.	Environmental atlas for oil spill response in the Lancaster Sound region; review and assessment of the Mackenzie Environmental Monitoring Program; socio-economic inpact of the proposed Mackenzie Valley Natural Gas Pipeline.	Extensive fieldwork in the Soviet far east, Canadian high Arctic and Greenland into northern aboriginal ecology.
FIELDWORK LOCATION:	N.W.T.; Yukon	N.W.T.	
KEY WORDS:	highways, dredging, EIA	oil spills, pipeline	aboriginal issues

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FAX:	(204)475-1649	(403)435-7359	(604)666-3497
SUB-DISCIPLINES:	Aquatic biology	Wildlife management, behaviour, ecology of marine mammals and polar bears	Limnology
DESCRIPTION OF WORK:	Collection and analysis of baseline aquatic resource data; land use mapping; biological assessments of Arctic char stocks.	Behavioural, ecological, and population studies of polar bears, seals, walruses, polynyas and polar marine ecology; assessment of potential affects of anthropogenic activities.	Characterization of trophic status of 18 to 19 lakes in the Yukon River drainage basin and 3 to 5 lakes in northern British Columbia close to Yukon border.
FIELDWORK LOCATION:	Arctic Islands; Mackenzie Delta; Hudson Bay; N.W.T.	Hudson Bay; High Arctic; Beaufort Sea	Yukon; Northern British Columbia
KEY WORDS:	aquatic resources, land use planning, EIA, arctic char	polar bear, ringed seal, bearded seal, walrus, polynya, ecology, behaviour, population	productivity, nutrient flux, eutrophication

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SUB-DISCIPLINES:	Environmental management	Arctic plant ecology, environmental toxicology	Marine pollution control
DESCRIPTION OF WORK:	Management of environmental research, policies and protection activities in Canada's Arctic, with particular emphasis on the effects of industrial development.	Arctic ecosystem studies in polar deserts and polar oases; plants-hervivore interactions; fallout and natural low level radioactivity in arctic ecosystems.	Prediction of fate and effects of hazardous substances in the marine environment and development of counter mearares for marine spills of hazardous substances; marine waste disposal.
FIELDWORK LOCATION:		Ellesmere Island; Wood Buffalo National Park; Baker Lake; Alexandra Fiord; Sverdrup Pass	
KEY WORDS:	pollution, contaminants	polar deserts, polar oases, radioactivity	pollution, spills, wastes, modelling

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FAX:	(403)873-8185	(403)	(403)
SUB-DISCIPLINES:	Environmental law enforcement, spill response	Sustainable development	Hydrogeology and hydrogeochemistry of permafrost
DESCRIPTION OF WORK:	Development of environmental atlases for Beaufort Sea and Lancaster Sound regions; hazardous waste management electronics and telecommunications equipment.	Research to devise and encourage sustainable development diversified from external control and outside fluctuations.	Hydrogeochemistry of springs in N.W.T. and Yukon; acid mine drainage problems; permafrost terminology
FIELDWORK LOCATION:	N.W.T.	Yukon	Yukon; N.W.T.
KEY WORDS:	oil spill, PCBs, environmental law	sustainable development	permafrost, hydrogeochemistry

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SUB-DISCIPLINES:	Model development	Limnology (freshwater ecosystems)	Plant ecology, wetland ecology
DESCRIPTION OF WORK:	Research related to development of models for; (a) behaviour (drift, spread, weathering) of oil spills in open and ice-infested waters; (b) drift and deterioration of icebergs, life expectencies of ice bergs; (c) dynamics of sea ice; (d) storm surge forecasting.	Research on primary production, microbiology, eutrophication processes, and nutrient dynamics in high latitude lakes and streams.	Determination of vegetation, chemical and trace gas responses to climate change and permafrost melt; vegetation change across the forest tundra ecotone; population variation in mosses across boreal arctic gradients; peatland and wetland paleoecology; species response surfaces over climate gradients.
FIELDWORK LOCATION:		Antarctic; Hudson Bay	Ellesmere Island; Devon Island; Yukon
KEY WORDS:	modelling, oil spills, sea ice, icebergs, dynamics, thermodynamics, storm surges	algae, bacteria, eutrophication	peat, wetlands, methane, moss

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FAX:	(604)655-4761	(403)873-0293	(416)
SUB-DISCIPLINES:	Geographic information systems, remote sensing, database management, marine ecology, monitoring	Wildlife management, remote sensing	
DESCRIPTION OF WORK:		Habitat mapping of arctic goose breeding areas using satellite data (landsat, SPOT) and digital image analysis techniques (future work may include mapping of muskox habitat).	Stratospheric pollution
FIELDWORK LOCATION:	Beaufort Sea	Kent Peninsula, N.W.T.	Alert; Resolute
KEY WORDS:	GIS, remote sensing, database, monitoring, environmental impact assessment	habitat, mapping, goose breeding wetlands, remote sensing	ozone

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FAX:	(403)668-4070	(604)669-7390	(204)983-6285
SUB-DISCIPLINES:	Surface water quality	Socio-economic impact assessment	Fish habitat management
DESCRIPTION OF WORK:	A four cell sewage lagoon was monitored for one year for effluent/influent PH, conductivity, 800,000 and other variables in conjunction with laboratory studies at the technical university of Nova Scotia. This is the first known field study in northern Canada with complete monitoring and P.A.R. for each day.	Numerous socio-economic impact assessments of resource development projects and operational activities (of both industry and government) carried out throughout the Arctic; evaluation of government R&D activities in the Arctic.	Environmental emergency response. Land use planning, environmental impact assessment, policy development/analysis, regulation/industrial activities, resource distribution/sensitivity mapping/assessment, biota transfer issues. Coordination with U.S. agencies for Alaska and Canadian western arctics.
FIELDWORK LOCATION:	Whitehorse, Yukon		N.W.T.
KEY WORDS:	sewage lagoon, photosythetically active radiation (PAR)	EIA	environmental assessment, habitat, fish emergency response, planning, regulation, policy

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SUB-DISCIPLINES:	Hazardous waste, contaminated sites, organic chemistry, risk assessment	Land reclamation (Arctic), environmental protection planning	Hydrocarbon geochemistry, chlorinated contaminant distribution
DESCRIPTION OF WORK:	Assessment of the degree of contamination and contaminants found in the DEW line sites.	Revegetation studies involving native plants species, seed mixtures, fertilizer trials and numerous terrain disturbance studies.	Hydrocarbon and chlorinated contaminant samples collected in the Beaufort Sea are being analyzed and written up for publication; soil samples collected in the vicinity of DEW line sites across the Arctic are being analyzed for local and background contaminants.
FIELDWORK LOCATION:	Yukon, N.W.T.	Yukon; N.W.T.	Beaufort Sea; Canadian Arctic
KEY WORDS:	contaminants, sampling	revegetation, reclamation, EIA	chlorinated contaminants

FISHERIES -- PÊCHES

	Ali, Dr. Ather, M. Biologie, Univ. Montréal CP 6128, Succ. A Montréal, PQ, Canada H3C 3J7	Atkinson, Mr. Bruce NAFC, P.O. Box 5667 St. John's, NF, Canada A1C 5X1	Billington, Dr. Neil Zoology Department University of Guelph Guelph, ON, Canada N1G 2W1
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FAX:	(514)343-2293	(709)772-2156	(519)767-1656
SUB-DISCIPLINES:	Ichtyologie	Biology and management (assessment)	Genetic variation
DESCRIPTION OF WORK:	Etudes des adaptations visuelles et photo réceptrices chez les poissons aux conditions nordiques; mesure de la pénétration de la jumiére dans les eaux des lacs et des océans du nord.	Study the biology and population dynamics of redfish and grenadiers in the northwest Atlantic. This includes studies in the Davis Strait area. Provide assessment advice as necessary for these species.	Escammation of genetic variations among arctic char and lake trout populations, primarily using DNA analyses. Also investigation to the extent of hybridization between lake trout and arctic char on the Melville Peninsula.
FIELDWORK LOCATION:	Cambridge Bay	Northwest Atlantic to 70 N	Melville Peninsula; Baffin Island; Igloolik
KEY WORDS:	char, light penetration, visual pigment	redfish, grenadiers	

	Bowering, Mr. Raymond Northwest Atlantic Fisheries Center P.O. Box 5667 St. John's, NF, Canada A1C 5X1	Brothers, Mr. Gerald P.O. Box 5667 St. John's, NF, Canada A1C 5X1	Dempson, Mr. Brian Department of Fisheries and Oceans P.O. Box 5667 St. John's, NF, Canada A1C 5X1
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FAX:	(709)772-2156	(709)772-4525	(709)772-2156
SUB-DISCIPLINES:	Fisheries management		Population dynamics, stock assessment
DESCRIPTION OF WORK:	Biology and stock assessment of major flatfish species particularly Greenland halibut (Reinhardtius luppoglossoides) and to a lesser extent American plaice (Hippoglossoides platessoides) for fisheries management purposes.	Conduct exploratory and experimental fishing, development of new fisheries for under-utilized species.	Various research projects have been undertaken to develop a comprehensive understanding of life history characteristics, stock interrelationships, dynamics of arctic char stock and their responses to exploitation.
FIELDWORK LOCATION:		Newfoundland and Labrador	Northern Labrador
KEY WORDS:	fisheries, Greenland, halibut, American plaice	Exploratory fishing, experimental fishing, surveys, shrimp, scallop, char	Labrador, fisheries, arctic char, Altantic salmon, population dynamics, stock assessment

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SUB-DISCIPLINES:	Biological oceanography; fisheries oceanography		Oceanographie biologique
DESCRIPTION OF WORK:	Hydrodynamical control of food availabiltiy to fish larvae emerging under the ice cover of Hudson Bay; larval fish survival in relation to the production cycles of ice algae and phytoplankton in subarctic and arctic environments; marine and anadromus species.	Development of renewable resources, utilizing sustainable development parameters, requiring research into resource availability, and alternative harvesting and processing techniques.	Étude des variations spatiales dans l'abondance et la nutrition des larves de poissons dans le sud-est de la baie d'Hudson et influence du panache de la riviere grande-baleine.
FIELDWORK LOCATION:	Kuujjuarapik (Great Whale); Hudson Bay	Inuvik; western Arctic	Poste de la baleine, Québec
KEY WORDS:	fish larvae, phytoplankton, ice algae, zooplankton	harvesting, wildlife	larves de poissons, banquise, panache, nutrition

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SUB-DISCIPLINES:		Freshwater fish biology, management and conservation	arctic fish ecology/energetics
DESCRIPTION OF WORK:	Metabolism and cardiovascular function of arctic fish and invertebrates.	Ecological and systematic research on the arctic char (Salvelinus alpinus) species in circumpolar regions.	Research on trophic relationships and feeding energetics of arctic cod (Boreogadus saida) in high- arctic marine food chains.
FIELDWORK LOCATION:	Resolute Bay, N.W.T.	Northern Scandinavia; Svalbard; Greenland; Labrador; N.W.T.	Resolute Bay, N.W.T.
KEY WORDS:	metabolism, oxygen, cardiovascular, fish, invertebrates	arctic char, Salvelinus alpinus, systematics, competition, conservation	Arctic fish ecology, Arctic marine food chains, feeding energetics, energy flow

	Igloolik Hunters and Trappers Association Box 89 Igloolik, NT, Canada X0A 0L0	Johnson, Dr. Lionel 10201 Wildflower Place Sidney, BC, Canada V8L 3R3	Johnson, Mr. Robert L. 204-9181 Main Street Chilliwack, BC, Canada V2P 4M9
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SUB-DISCIPLINES:	Wildlife management	Environmental sciences	Population estimates, fish behaviour studies, remote fish sizing
DESCRIPTION OF WORK:	Test the feasibility of winter fishery where fish is frozen on the spot in the field using sub-zero temperature as a freezing agent.	Studies on arctic char. Development of theoretical concepts governing biological relationships.	Fish population extimates using "state of the art" scientific hydroacoustic sampling techniques and echo signal processing. Baseline distribution and behavioural information using our sampling instruments.
FIELDWORK LOCATION:	Igloolik, test was done in 3 different lakes	Central Canadian Arctic; Victoria Island; Kent Peninsula	Throughout Canada
KEY WORDS:	fisheries	arctic char, arctic fisheries, ecological theory, thermodynamics	Fish population estimates, fish behaviour, hydroacoustics, sonar, echo sounding, remote sensing, fish sizing, target strength, echo integration, echo signal processing

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SUB-DISCIPLINES:			Wildlife management
DESCRIPTION OF WORK:	Taxonomy, distribution identification of marine and freshwater fishes of arctic Canada. Preparation of "Marine fishes of Arctic Canada".	Age, morphology developmental biology, and biochemical genetic variation of chum and chinook salmon in the upper Yukon River. Scale characteristics of juvenile chinook salmon in the upper Yukon River.	Fisheries development (experiment/commerical arctic char weir fisheries); organochlorine assessement in marine mammals of northern Québec; salmon and arctic char population dynamic studies; canada goose population estimates.
FIELDWORK LOCATION:	Eastern Arctic; Western Arctic; Hudson Bay	Yukon	Arctic Québec; Ungava; Hudson Bay; Hudson Strait
KEY WORDS:	fishes, marine, freshwater, taxonomy, identification		fisheries, organochlorines, salmon, char

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SUB-DISCIPLINES:	Invertebrate fisheries and biology	Fish ecology and management	
DESCRIPTION OF WORK:	A study of the biology, ecology and population dynamics of northern shrimps in the Newfoundland-Labrador area, Davis Strait, Ungava Bay and eastern Hudson strait.	Life history, age, growth production and management of arctic char, atlantic salmon and other cold-water fish species. Native harvest studies. Impacts of hydro-electric development.	Assessment of Greenland salmon fishing and salmon population in Davis Strait.
FIELDWORK LOCATION:	Labrador; Ungava Bay; Hudson Strait	Northern Québec	Davis Strait, N.W.T.
KEY WORDS:	crustacea, shrimp, fishery biology	Salmonid ecology, conservation, management harvest	salmon, fisheries, population

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SUB-DISCIPLINES:	Population genetics, taxonomy, population dynamics	Fisheries habitat management-eastern Arctic	
DESCRIPTION OF WORK:	Genetic population structure and dynamics of arctic anadromous fish populations is emphasized.	Assess impact of human activities on fish and marine mammal habitat / resources in eastern Arctic. Develop habitat management / land use plans.	Surveys of fish distribution and abundance. Migration pattern of anadromous brook trout. Biology of Greenland cod and sculpins.
FIELDWORK LOCATION:	Yukon (Arctic coast); Mackenzie River (lower); Arctic Islands	Eastern Arctic-based at Iqaluit, Baffin Island	James Bay
KEY WORDS:	Salmonidae, Coregonus, Salvelinus, Stenodus, population genetics, stocks	fisheries, habitat, environmental protection, land use	Greenland cod, sculpins, migration, habitat, abundance

GEOGRAPHY -- GÉOGRAPHIE

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SUB-DISCIPLINES:	Ice and snow		Pergélisol, géomorphologie, quaternaire
DESCRIPTION OF WORK:	Studies of biological and hydrological aspect of ice, including snow.	Demography of sparsely populated areas, analysis and forecasting; energy efficient home design based on reception of active solar energy as well as photovoltaics; urban design for the north based on solar and wind energy.	Etudes de déglaciation et de formations quaternaires et étude du pergélisol: geocryologie, forages, progression du pergélisol sur les littoraux en émersion, suivi des effets des changements climatiques avec un réseau de stations de mesures thermiques.
FIELDWORK LOCATION:	Northern Québec; Axel Heiberg Island; Kawartha Lakes	Saskatoon, Saskatchewan	Nord du Québec
KEY WORDS:	lake ice, snow, glaciers	population, energy, home design, efficiency	pergélisol, géomorphologie, quaternaire, environnement

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SUB-DISCIPLINES:	Remote sensing		Geomorphology, glacial geology
DESCRIPTION OF WORK:	Assessment of imagery from diverse remote sensors (SAR, SLAR, SCATT, radiometer, visible) usually pertaining to sea ice and icebergs, remote sensing, sea ice, image analysis.	Geography of northern Canada and historically important expeditions in northern Canada	Reconstructing glacial and sea level fluctuations in the high Arctic; palaeoclimatic change.
FIELDWORK LOCATION:		N.W.T.	Ellesmere Island, Axel Heiberg Island, N.W.T.
KEY WORDS:			glacial geomorphology, sea level history, glacioisostasy

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SUB-DISCIPLINES:	Paléoclimatolgie, paléoécologie	Permafrost	River systems management
DESCRIPTION OF WORK:	Étude de différents processus écologiques et géomorphologiques (e.g. dunes de sable); limite des arbres; pergélisol.	Investigation of permafrost hydrology and thermal regime.	Analysis of fluvial sediment transport, sediment contaminant data and fluvial processes.
FIELDWORK LOCATION:	Norman Wells; Fort Simpson; Inuvik	Mayo, Whitehorse, Yukon; Mackenzie Delta, N.W.T.	Yukon; N.W.T.
KEY WORDS:	global change, paléoécologie, dendrochronologie, pergélisol	permafrost, frost heave, climate change	rivers, sediments

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SUB-DISCIPLINES:	Botany	Raporteur/research; wildlife flora and fauna	
DESCRIPTION OF WORK:	Currently working on an illustrated flora of Yukon with distribution maps for all species known to occur in the area.		A geomorphic investigation of Herschel Island, Yukon.
FIELDWORK LOCATION:	Yukon	Komakuk Beach, Yukon; Longstaff Bluff, N.W.T.	Herschel Island, Yukon
KEY WORDS:	botany, flora		permafrost, thermokarst, ground ice

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SUB-DISCIPLINES:	Microclimatology, geocryology and geomorphology, snow hydrology		
DESCRIPTION OF WORK:	Investigating snow and ground thermal regimes in the Schefferville area, Northern Québec.	Infrastructure planning for expansion of town of Inuit related to production of hydrocarbon from Beaufort Sea and Mackenzie Delta.	Mapping Quaternary deposits northern Québec; coastal studies (James and Hudson Bay's); ice action along shores (marine, lacustrine and fluvial environments); periglacial features (modern and relict); permafrost distribution and features (palsas); geographic distribution of eolian dunes (north of the St. Lawrence)
FIELDWORK LOCATION:	Schefferville, Northern Québec	Inuvik	Northern Québec
KEY WORDS:	ground temperature, snow, permafrost, climate change, surface energy exchanges	town planning	ice, periglacial, Quaternary, shorelines

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SUB-DISCIPLINES:	Biogeography	Glacial geomorphology	Geomorphology
DESCRIPTION OF WORK:	Investigation of treeline processes including reproduction and growth rates. Special interest in treeline reponse as early indicators of climate change.	Glacial history, climate history, sea level history, surficial geology mapping, paleo-oceanography.	Paleoenvironmental change in the Canadian High Arctic with particular emphasis on past glacial activity and related sea level fluctuations. Broader issues conern the evolution of the Arctic landscape since the late Tertiary, the formation and depositional history of the fiords and the role of glaciation vs. neotectonics in their development.
FIELDWORK LOCATION:	Hudson Bay to Mackenzie Delta, N.W.T.	Arctic Islands	Northern Ellesmere Island; Northern Greenland
KEY WORDS:	biogeography, climate change		quaternary, glaciation, sea level, neotectonics, glacioisostasy

	Foggin, Peter M Département de Géographie Université de Montréal C.P. 6128, Succ. A Montréal, PQ, Canada H3C 3J7	French, Dr. Hugh M. Depts. of Geography and Geology University of Ottawa Ottawa, ON, Canada K1N 6N5	Gerloff, Dr. Jens Uwe Greifswald University Geographical Institute Ludwig-Jahn-Str. 16 Greifswald, Germany 0-2200
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SUB-DISCIPLINES:	Géographie de la santé	Permafrost, earth sciences	Resource development, environment policy
DESCRIPTION OF WORK:	État de santé et facteurs de risque des cris et Inuit du Québec Nordique.	Field studies of geomorphic and permafrost-related process in Western Canadian Arctic (Mackenzie Delta, N. Yukon) and Arctic Islands (Banks, Melville, Ellef Ringnes).	Research of development processes in hitherto few developed regions, compared studies of arctic countries, especially Soviet Union and Canada, changes of the regional economic structure in northern Canada including ecological and social problems.
FIELDWORK LOCATION:	Nouveau-Québec; Chisasibi; Kuujjuaq; Mistassini; Ungava Bay	Arctic Canada	
KEY WORDS:	Cree, Inuit, health status, risk factors, respiratory health	permafrost, arctic, geomorphology, terrain disturbance, snow, ice, frost	development of new regions, regional economic structure

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SUB-DISCIPLINES:	Géomorphologie et palynologie	Glacial geomorphology	
DESCRIPTION OF WORK:	Plusieurs publications portant sur l'évolution du couvert végétal durant l'Holocène et sur le géomorphologie de la région du Kluane; bassin d'Aishihik, vallée de la rivière Nisling en particulier le Pleistocène de la vallée Nisling.	Study of glacilacustrine and glaciomarine processes and Quaternary glacial environments	Relationships between surface brightness, emissivity, accumulation, surface temperature and distance to open ocean; attenuation of winter air temperatures.
FIELDWORK LOCATION:	Yukon	Baffin Island; Axel Heiberg Island	
KEY WORDS:	Pléistocène, Holocène, Yukon	glacier, lacustrine lakes, Quaternary	surface brightness, emissivity, temperature

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SUB-DISCIPLINES:	Sedimentology, physical limnology	Human geography, arctic regions	
DESCRIPTION OF WORK:	Sediment sampling for paleolimnological work and long term monitoring.	Man-land relationships, Inuit toponymy (place names), movements of Inuit to and for wage-employment, Inuit oral traditions, perception of landscape in arctic regions.	Snow cover, permafrost modelling, remote sensing of sea ice, microclimate modelling.
FIELDWORK LOCATION:	Baffin Island; High Arctic; Hudson Bay lowland	Kitikmeot region, Central Arctic, N.W.T.	Schefferville,(Québec); Churchill, (Manitoba); Mackenzie Delta, (N.W.T.); Weddell Sea (Antarctic); Bay of Bothnia
KEY WORDS:	sediment, sampling	perception, landscape, toponymy, oral tradition	snow cover, permafrost, GIS, SAR, sea ice, modelling

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FAX:	(519)	(613)998-4721	(414)229-6329
SUB-DISCIPLINES:	Economic geography		Cultural/economic geography of the Arctic and Subarctic
DESCRIPTION OF WORK:	Retailing studies in Northwest Territories and socio-economic development effects of resource projects.	Study of erosion and mapping, fossil, logs and stumps.	Professor (Emeritus from July 1, 1990) of Geography teaching several graduate and undergraduate courses on the circumpolar North, including an arctic winter field course. Publications research over a thirty-five year career in geography of the Northlands.
FIELDWORK LOCATION:	N.W.T.	Axel Heiberg Island	Greenland; Alaska; Northern Canada; Iceland; N. Scandinavia
KEY WORDS:	retailing, economic development, socio-economic monitoring	erosion, fossil, mapping	cultural geography, economic geography, instruction, arctic organizations

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FAX:	(819)953-0546	(418)	(403)
SUB-DISCIPLINES:	Wildlife management, marine hunting	Revendications territoriales, attitudes entre les Autochtones et les non-Autochtones	Alpine permafrost, use of permafrost lands, origin of permafrost landforms
DESCRIPTION OF WORK:	Development of hand held harpoon gun.	Etude de relations interculturelles basées sur le thème "terre"	Distribution and causes of permafrost. Permafrost mapping. Origin and dynamics of permafrost and related landforms and soils. Origin of ice in permafrost. Relationship of permafrost to climate. Monitoring the effects of climate changes. Effects of Man's use on permafrost.
FIELDWORK LOCATION:	Arctic Islands	Nord canadien	Alberta; British Columbia; Yukon; N.W.T.
KEY WORDS:	marine hunting, harpoon gun, ballistics	autochtones, non-autochtones, terres, relations interculturelles	permafrost distribution and use, climate change and permafrost

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FAX:	(403)	(613)996-9820	(418)656-2019
SUB-DISCIPLINES:	Historical geography		Géomorphologie littorale
DESCRIPTION OF WORK:	Historical geography, Mackenzie area, water and road transportation.	Mapping in Bathurst Inlet area (District of Mackenzie), mapping in Keewatin, Baffin Island.	Erosion littorale en mer de Beaufort canadienne. Transports sédimentaires a la côte dans la zone pré-littorale. Etude de l'effet de la glace de mer sur les fonds meubles peu profonds de la plateforme continentale.
FIELDWORK LOCATION:	Mackenzie District		Côte sud de la mer de Beaufort, Beaufort Sea
KEY WORDS:	historical geography	mapping	géomorphologie littorale, érosion littorale, transports sédimentaires, côte de la mer de Beaufort

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TELEPHONE: **FAX:**		(613)828-8159 (613)	(403)492-0346 (403)492-7033
SUB-DISCIPLINES:	Periglacial geomorphology	Permafrost geomorphology	Periglacial geomorphology (ecosystem management, human-induced disturbances)
DESCRIPTION OF WORK:	Periglacial geomorphology on Baffin Island, N.W.T., permafrost conditions at the location of two municipal water storage facilities. Periglacial geomorphology and its implication to Quaternary reconstructions.	Research project involves a study of ice-wedge polygon development on different quaternary deposits in an emergent river valley.	In 1985, a simulated transport corridor was constructed in subarctic forest. Subsequently the site has been instrumented, revegetation treatments have been applied, and an experimental oil spill conducted. The study is an ecosystem investigation. In 1990, palsas on the Macmillan Pass are of Yukon and N.W.T.., were instrumented and internal characteristics and microclimate studies were conducted.
FIELDWORK LOCATION:	Baffin Island; Pangnirtung; Pond Inlet	North coast of Québec	Fort Norman; MacMillan Pass-CANOL
KEY WORDS:	periglacial, water storage, permafrost	ice wedge polygons, Quaternary geology	disturbances, reclamation, pipelines, palsas / peat plateaus, permafrost, vegetation, periglacial geomorphology, microclimate, ecology, subarctic, tundra, mountains

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SUB-DISCIPLINES:	Environmental change, limnology, pedology	Political geography, settlement geography, historical geography	Geomorphology (coastal, glacial), Quaternary geology
DESCRIPTION OF WORK:	Investigation of the long-term dynamics of selected high arctic ecosystems and in particular the impact of climate change on shoreline fluctuations coastal emergence, soil vegetation and lake development, permafrost conditions and landscape development in Canada.	Archival research on destitution in Northwest Territories in the first half of 1900's (Yellowknife: Prince of Wales museum); archival research on disease and destitution in Yukon (1880-1950) Whitehorse Yukon Archives.	Development and sedimentary evolution of high arctic tidal flats under severe sea ice conditons. Raised tidal flats and intertidal platforms.
FIELDWORK LOCATION:	Canadian Arctic Archipelago	N.W.T.; Yukon	East-Central Ellesmere Island
KEY WORDS:	climate change, arctic lakes, soil development, coastal emergence, permafrost	destination	tidal flat, sea ice

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SUB-DISCIPLINES:	Geochemistry	Géomorphologie, karst	Geomorphology, hydrology
DESCRIPTION OF WORK:	Geochemistry and thermal regime of fringe zone of discontinuous permafrost.	Le travail réalisé consiste en un inventaire et une analyse des phénonènes karstiques fossiles et actuels du nord du Yukon. Le but du travail est de reconstituer les fluctuations climatiques, et les principals étapes de la morphogénèse des montagnes calcaires dans cette region. De plus, on tente de mieux comprendre la dynamique du karst en milieu de pergélisol notamment par l'étude des glaces et des écoulements souterraines.	Effect of climate change on earth surface processes.
FIELDWORK LOCATION:		Nord du Yukon; Old Crow	Canadian Arctic Archipelago
KEY WORDS:	Geochemistry, permafrost	karst	

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FAX:	(418)	(514)	(709)364-3550
SUB-DISCIPLINES:	Océanographie, géomorphologie	Tourism and recreation	Remote sensing
DESCRIPTION OF WORK:	Mise en place des cones deltaiques en milieu nordique; stabilité des estuaires; formation de placers en zone intertidale et subtidale.	Tourism and recreation geography, tourism-based economic development, planning strategies for municipalities and tourist regions.	Remote sensing specialist in a variety of disciplines including biophysical terrain mapping of a mountainous region in the southwest Yukon. The research investigates the use of satellite imagery and digital elevation models for high relief terrain analysis.
FIELDWORK LOCATION:	Rivière Moisie, Rivière Natashquan, Baie de Rupert, Chisasibi	Québec; Northern Canada; Scandinavia; Carribbean	Southwest Yukon
KEY WORDS:	cônes deltaïques, estuaires	recreation, tourism, regional development	satellite imagery, biophysical, classification, mountainous, digital elevation model(DEM), landsat thematic mapper(TM)

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SUB-DISCIPLINES:	Palaeoecology	Permafrost	Nature conservation, tourism
DESCRIPTION OF WORK:	Use fossil pollen records to reconstruct vegetation change in the subarctic.	Research in the growth of permafrost, ice wedges, pingos and ground ice	Analysis of the relationship between nature protection, tourism and sustainable development in Arctic and Antarctic.
FIELDWORK LOCATION:	Mackenzie and Keewatin, Western N.W.T.	Western arctic coast	Baffin Island; Yukon; Antarctica
KEY WORDS:	palaeoecology, palynology, boreal forest	permafrost, ice-wedges, pingos, ground ice	parks, tourism

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SUB-DISCIPLINES:		Geomorphology	Physical oceanography, geomorphology
DESCRIPTION OF WORK:	Community and regional land use plans, conference planning, funding submissions, housing need statements, applied research with management data, energy-related studies, small business feasibility, socio-economic research.	Coastal processes	Research in the areas of geography, geomorphology, oceanography, meteorology and climatology; involved in the design and development of PC based emergency response systems.
FIELDWORK LOCATION:		Arctic Islands	
KEY WORDS:	planning, housing, management, land use, training	coastal	change, coastal

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SUB-DISCIPLINES:	Géomorphologie	Sediment transport, numerical modelling, geomorphology	Geomorphology, geocryology, geophysics
DESCRIPTION OF WORK:	Étude sur le mécanisme du soulèvement gélival dans la roche en place; reconstitution d'environnements holocènes à partir de processus géomorphologiques et écologiques.	Numerical modelling of sediment transport in Mackenzie River at Norman Wells and geomorphology of Mackenzie river same location. Numerical modelling of sediment loads/patterns in Yukon streams.	Ground penetrating radar studies of permafrost and massive ground ice.
FIELDWORK LOCATION:	Québec subarctique; vallée du Mackenzie	Norman Wells, N.W.T.; Yukon	Mackenzie Valley; Mackenzie Delta; Ellesmere Island
KEY WORDS:	processus géomorphologique, pergélisol	sediment, numerical modelling, rivers, streams	massive ground ice, ground penetrating radar

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FAX:	(514)	(613)	(613)992-2468
SUB-DISCIPLINES:	Wildlife management, environmental impact assessment, human ecology	Remote sensing, sea ice and icebergs	Geomorphology, geocryology, quaternary, geology
DESCRIPTION OF WORK:	Research on Inuit ecological knowledge and its applications to Northern Wildlife Management and environmental impact assessment; common eider ecology, nest census and banding.	Appications of remote sensing to the characterization of ice environments in support of marine transportation and oil and gas development.	Study of variation in maximium arctic layer thickness, Mackenzie Valley, drilling and sampling in frozen ground.
FIELDWORK LOCATION:	Southeast Hudson Bay (Sanikiluaq, N.W.T.; Inukjuak, Kuujjuarapik, Northern Québec)	Various locations in the Arctic and east coast Canada	Mackenzie Valley; Mackenzie Delta; Canadian Arctic
KEY WORDS:	Inuit traditional knowledge, wildlife management, co-management, Common Eider	remote sensing, sea ice	

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FAX:	(514)	(613)788-4301	(403)282-6561
SUB-DISCIPLINES:	Water chemistry	Geotechnical science	Remote sensing
DESCRIPTION OF WORK:	Chemical and isotopic analyses of freshwater to hypersaline lakes.	Geotechnical analysis on sediment cores from the Beaufort Sea.	Remote sensing image analysis and topographic data integration for biophysical terrain analysis, land cover mapping, and permafrost predictive modelling using digital multi-temporal satellite imagery.
FIELDWORK LOCATION:	Nouveau-Québec		Bear Lakes, Aishihik Lake, Yukon
KEY WORDS:	isotopes, lakes		remote sensing, terrain analysis, permafrost

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SUB-DISCIPLINES:	Glaciology	Geomorphology, permafrost, geophysics	Permafrost, periglacial geomorphology
DESCRIPTION OF WORK:	Snow and ice control on roads, ice, climatology, de-icing chemicals, snow-drifting.	Development of ground penetrating radar, demonstration of its capabilities, temperature observations.	Study of nature and origin of massive ground ice; investigation of frost mound origin; petrographic characteristics of ground ice.
FIELDWORK LOCATION:			Northern Yukon; Axel Heiberg Island; Ellesmere Island; Schefferville, Northern Québec
KEY WORDS:	ice, snow	permafrost, massive ice, radar	permafrost, ground ice

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SUB-DISCIPLINES:	Paléoécologie	Aménagement du territoire	Settlement margins
DESCRIPTION OF WORK:	Diagrammes sporopolliniques en Ungava dans une perspective paléophytogéographique et paléoécologique.	Ai participé à l'aménagement de divers villages du Québec arctique. Suis actuellement impliqué dans un project de planification de nouveaux établissements dans l'Arctique soviétique avec le Centre d'Architecture Nordique de Novosibirsk, USSR.	Northern agricultural frontiers of Manitoba. The economic regions of western Manitoba. Reasons for decision of nomadic herding/herds in the northern zones of Canada.
FIELDWORK LOCATION:	Ungava	Québec; Arctique	
KEY WORDS:	diagrammes sporopolliniques	villages, aménagement, planification, utilisation du sol	settlement frontier, agricultural frontier

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SUB-DISCIPLINES:	Biogéographie	Historical geography	Historic and archaeological clothing and textiles
DESCRIPTION OF WORK:	Distribution et écologie du genre dryas en Amérique du Nord	1) Scottish arctic whaling; 2) Newfoundland seal fishery.	Analysis of textiles and clothing items from northern regions and the biodeterioration of organic items of material culture.
FIELDWORK LOCATION:	Yukon; TNO		N.W.T.
KEY WORDS:	dryas, écologie, spéciation, dispersion, écotypes	arctic whaling, Newfoundland sealing	textile, clothing, biodeterioration

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FAX:	(403)873-0227	(709)737-4706	(514)343-8008
SUB-DISCIPLINES:	River ice growth, decay and breakup	Geographic information systems, geostatistics	Climatologie
DESCRIPTION OF WORK:	Long-term monitoring of river ice growth and decay in Northern rivers. Determination of sources and magnitude of ice cover thinning. Determination of areal variations in ice cover due to local climatic variabilities.	Development of geographic information system application in cold ocean studies. Spatial and multivariate analysis of environmental, geological and oceanographical data using knowledge based expert systems. Development of computer mapping strategies for geographically referenced data.	Étude de gel saisonnier dans la région de la baie James; études des pluies acides, baie James; étude de l'évapotranspiration; région de Poste-de-la-Baleine.
FIELDWORK LOCATION:	Mackenzie Delta, N.W.T.; Hay River, N.W.T.		Nouveau-Québec
KEY WORDS:	rivers, ice, growth, decay, ice breakup, ice jams	geographic information systems, expert systems, computer mapping	gel au sol, bilan d'énergie, pluies acides, acid rain, evapotranspiration

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SUB-DISCIPLINES:	Geomorphology, sedimentology	Permafrost studies, climatology, impact assessment	Geomorphology, pedology, resource management
DESCRIPTION OF WORK:	Reconstruction of late glacial lakes (Glacial Lake McConnell, Lake Mackenzie, Lake Liard, Lake McMurray and Lake Peace); reconstruction of the catastrophic flood at Fort McMurray from Lake Agassiz; sedimentology of lacustrine (lakes) deltas (modern and late Pleistocence in age).	Climate and permafrost-climate change. Geotechnical problems associated with ground freezing/frost heave, and from ground thawing.	Investigation into the paleoenvironmental conditions leading to the development of polygonal peat plateaus in a High Arctic setting; study of gound ice and present day water quality of the features and the lowland study area in general.
FIELDWORK LOCATION:	Mackenzie River Basin; Alberta; British Columbia; Saskatchewan	Central Yukon; Mackenzie Valley; Mackenzie Delta	Truelove Lowland, Devon Island, N.W.T.
KEY WORDS:	reconstruction, lakes, Pleistocene	permafrost, geotechnical, climate	paleoenvironmental, peat, ground ice

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SUB-DISCIPLINES:	Human, economic, historic	Remote sensing, ice interpretation/research	Climatology, remote sensing
DESCRIPTION OF WORK:	Inuit internal migration in Northwest Territories.	Remote sensing data acquisition (SAR, SLAR, air photo, satellite); analysis/interpretation/research; radar and ice interpretation manuals; ice data base creation (ice typing, floe statistics, change over time); geologic interpretation(SAR, areomag, air photo).	Global climatic modelling, geobotany
FIELDWORK LOCATION:	N.W.T.	Canadian Arctic; American Arctic	N.E. Ontario
KEY WORDS:	Inuit, migration	ice, radar, SAR, SLAR, data	geobotany, geoclimate modelling, remote sensing

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SUB-DISCIPLINES:	Coastal processes	Géographie médicale	Environment, global climate change
DESCRIPTION OF WORK:	Examination of the physical character and stability of Arctic Canada coastline and a monitoring of the processes which effect them; baseline surveys of coastal morphology, monitoring of shoreline change, action of sea ice and rock of permafrost and ground ice and documentation of sedimentological imprints of these factors.	Ecologie sociale et physique des maladies dans les communautés Cries et Inuit du Nord du Québec; enquête pluridisciplinaire; prévalence, nutrition, modes de vie, facteurs de risque, utilisation des services de santé.	Environmentalism, global climate changes as it affects policy and operations of DND. More specifically: GIS, permafrost, remote sensing.
FIELDWORK LOCATION:	Candian Arctic Islands	Villages Cries et Inuit, Nord du Québec	Arctic Canada
KEY WORDS:	coastal change, sea ice, ground ice	modes de vie, nutrition, acculturation, transition épidémiologique, utilisation des services de santé	global climate, changes, terrain sciences, geographic information systems

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SUB-DISCIPLINES:	Tourism and recreation	Human geography, native studies, environmental impact assessment	Geotechnical science
DESCRIPTION OF WORK:	Various studies of visitors to northern National Parks and their attitudes towards possible management strategies.	Research and consulting in the fields of native land use and occupancy, native subsistence wildlife harvesting, social and environmental impact assessment of northern development.	Physics and thermodynamics of freezing soils; geotechnical problems of cold regions; oil and gas development in the North.
FIELDWORK LOCATION:	Kluane; Nahanni; Auyuitivq	Northern Québec; Northern Ontario; James Bay lowland	
KEY WORDS:	tourism, recreation, parks	native land use, wildlife harvesting, wildlife management, impact assessment, sustainable development	permafrost, pipelines, soil

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SUB-DISCIPLINES:	Quaternary paleoenvironments/arctic lakes	Environmental impact
DESCRIPTION OF WORK:	Sedimentology, limnology and paleolimnology of arctic lakes. Use of diatoms as paleoenvironmental indicators. Water and sediment geochemistry.	Scientific research on permafrost-vegetation relationships, impact of disturbances in arctic environments.
FIELDWORK LOCATION:	Cumberland Peninsula, Baffin Island	N.W.T.
KEY WORDS:	paleolimnology, quaternary environmental change, diatoms, arctic lakes	vegetation, permafrost, thermokarst, disturbance, palsas, peatland

GEOLOGY -- GÉOLOGIE

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SUB-DISCIPLINES:	Palynology, biostratigraphy, paleobiogeography	Stratigraphy, especially Precambrian; sedimentology; regional expertise	Hydrogéologie, environnement
DESCRIPTION OF WORK:	Biostratigraphy and paleobiogeography; Ordovician chitinozoa, from arctic Canada	Stretigraphy of Mackenzie Mountains and northern interior platforms, particularly Lower Paleozoic and Proterozoic; geological mapping; tectonic analysis.	Exploration des ressources minérales et études d'impacts environnementaux
FIELDWORK LOCATION:		Mackenzie and Franklin Mountains, N.W.T.	Ungava; Abitibi; Saguenay-Lac-Saint-Jean; Côte-Nord
KEY WORDS:	Ordovician chitinozoa, biostratigraphy, paleobiogeography	mapping, stratigraphy, proterozoic	exploration, cartographie, environnement, ressources-minerales

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SUB-DISCIPLINES:	Seismology	Paleobotany, paleontology, paleoecology	Stratigraphy, sedimentology
DESCRIPTION OF WORK:	Seismic hazard analysis for engineered facilities and ground motion research.	Investigation of fossil plants of northern Canada, evolution of plants in the high northern latitudes and the origin and evolution of temperate forests.	To assess the tectono-sedimentary parameters of carboniferous and permian rocks in the Canadian Arctic; to evaluate the resource potential of the Sverdrup Basin.
FIELDWORK LOCATION:		Ellesmere Island, Axel Heiberg Island, N.W.T.; Yukon	Ellesmere Island; Axel Heiberg Island; Devon Island; Melville Island
KEY WORDS:	seismic hazard, earthquake, ground motion	paleobotany, evolution, paleoclimate, fossil plants	upper paleozoic

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FAX:	(902)	(613)992-2468	(206)676-3044
SUB-DISCIPLINES:		Quaternary, informatics, environmental geology, remote sensing	Geochronology
DESCRIPTION OF WORK:	Database administrator for the Sample Inventory Database, (SID).	Remote sensing, mapping surficial geology, drift prospecting, permafrost study, informatics, global change, environmental geology, permafrost research.	Age dating of unconsolidated Quaternary sediments and tephra by thermoluminescence (tl).
FIELDWORK LOCATION:	Eastern Arctic; Beaufort Sea	Mackenzie Valley; Arctic Islands	Central Alaska; Northern Manitoba
KEY WORDS:	Sampling Inventory Database, (SID)	remote sensing, quaternary geology, GIS, environmental geology	Quaternary, sediments, thermoluminescence

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SUB-DISCIPLINES:	Glacial geology	Marine engineering geology	Paleontology, stratigraphy
DESCRIPTION OF WORK:	Glacial geology, quaternary geochronology, paleolimnology and pleistocene invertebrate faunas - Arctic Islands.	Sea bed engineering geology research related to offshore hydrocarbon developement in the Canadian Beaufort Sea.	Identification and description of Ordovician and Silurian megafossils from Baffin Island and Southampton Island, and District of Franklin.
FIELDWORK LOCATION:	Ellesmere Island; NW Greenland; NE Svalbard	Beaufort Sea	
KEY WORDS:	Pleistocene, invertebrate	marine, hydrocarbon	megafossils, Ordovician, Silurian

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FAX:	(514)343-5782	(613)	(604)655-3993
SUB-DISCIPLINES:		Geochemistry, geochemical prospecting	Hydrogeology, resource management
DESCRIPTION OF WORK:	1) Cratère du Nouveau-Québec: géologie du cratère datation des impacts mesure de l'érosion; limnologie du lac du cratère; stratigraphie du bassin; paléoclimatologie. 2) Glaciers de l'île de Bylot T.N.O.; étude des sédiments, étude des fluctuations des fronts glaciaires.	Geology of gold deposits; geochemistry of gold and other mineral deposits; geochemical prospecting in arctic environments.	Resource administration Northern Inland Waters Act, Terr. Lands Act, Arctic Water Poll. Prevention Act, Canada Oil & Gas Act.
FIELDWORK LOCATION:	Ungava, Île de Bylot	Yukon; N.W.T.; Northern Québec	Northern Canada
KEY WORDS:	impacts météoritiques, stratigraphie du cenozoique supérieur	gold, mineral deposits	hydrogeology, oil and gas, hydroelectrics, environment

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FAX:	(709)737-2589	(613)992-2468	(709)737-4000
SUB-DISCIPLINES:	Palynology, sedimentology, stratigraphy	Permafrost	
DESCRIPTION OF WORK:	Map distribution of sedimentary strata; measure sections for sedimentological characteristics; collect rock samples for petrography, clay minerals and palynology.	Permafrost and terrain research and monitoring along the Norman Wells to Zama pipeline; geothermal and geomorphic observation from instrumented study sites along the pipeline corridor; response of permafrost terrain to natural, climate and development activities.	Quaternary sedimentology, stratigraphy and chronology.
FIELDWORK LOCATION:	Bylot Island, N.W.T.	Mackenzie Valley; Mackenzie Delta	
KEY WORDS:	cretaceous, tertiary	permafrost, frozen soils, pipeline	Quaternary, sedimentation

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FAX:	(403)292-5377	(613)995-7997	(403)244-9573
SUB-DISCIPLINES:			Geophysics, environment
DESCRIPTION OF WORK:	Regional geological mapping at 1:500 000 up to 1:250 000 scale of stratigraphy, sedimentology, structural geology; project on comparison of geological terranes around the circum-arctic basin, since 1986. (Canada/Russia Arctic Scientific Exchange Agreement).	Regional mapping, sedimentology, economic geology, tectonics	Seismic exploration.
FIELDWORK LOCATION:	Northern Canadian Cordillera, Mackenzie, Selwyn, British, Barn and Richardson Mountains; Chukotka; Wrangel Island; New Siberian Islands; Ellesmere Island	Keewatin; Ungava; Baffin Island	Beaufort Sea; High Arctic; Eastern Arctic
KEY WORDS:	mapping	mapping, tectonics	seismic

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FAX:	(403)492-2030	(416)	(613)996-3726
SUB-DISCIPLINES:	Remote sensing	Environmental sedimentology	Applied geochemistry, environmental geochemistry
DESCRIPTION OF WORK:	Studying the spectral properties of boreal rock types and lichen species to improve remote sensing identification and classification.	Bottom sediments and post-glacial evolution of lakes.	Regional and detailed studies of till geochemistry and lake sediment geochemistry.
FIELDWORK LOCATION:	N.W.T.; Yukon	Stanwell-Fletcher Lake, Somerset Island.	Contwoyto Lake; Ferguson Lake
KEY WORDS:	remote sensing, lichen, spectroscopy	sediments, lake, quaternary	geochemistry

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SUB-DISCIPLINES:	Structural geology	Paleontology	
DESCRIPTION OF WORK:	Structure stratigraphy and tectonics of Franklin Mountains, Colville Hills, and adjacent plains.	Ordovician Ostracode of Southern Baffin Island.	Geological mapping of Admiralty Inlet and Hudson Bay Lowlands.
FIELDWORK LOCATION:	N.W.T.	Baffin Island, N.W.T.	Hudson Bay Rivers; Baffin Island; Western Bylot Island
KEY WORDS:	structure, tectonics	Ostracode, Ordovician	mapping

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SUB-DISCIPLINES:	Marine geology	Géologie du Quaternaire	Geotechnical, engineering geology
DESCRIPTION OF WORK:	Surficial (Quaternary) geology; bedrock geology; tectonic history of Arctic Ocean.	Cartographie et stratigraphie des dépôts en surface de la partie septentrionale de la péninsule d'Ungava, Nouveau-Québec; études de dispersion glaciaire.	Research in permafrost, coastal geology and geotechnique.
FIELDWORK LOCATION:	Arctic Ocean, Canadian Arctic Islands	Peninsule d'Ungava, Nouveau-Québec	Yukon; N.W.T.
KEY WORDS:	Quaternary, tectonics	dépôts quaternaires	permafrost, ground ice, coastal

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FAX:	(617)	(412)622-8837	(403)
SUB-DISCIPLINES:	Quaternary geology	Paleontology	Basin analysis
DESCRIPTION OF WORK:	Mapping and dating Neoglacial moraines, debris flow levees, and debris avalanche deposits using lichenometry and radiocarbon dating; reconstructing Holocene climatic records from polynology of lake sediments; mapping and dating extent of Late Wisconsin (Late Fox) ice limits.	Field work in arctic Canada centering on terrestrial vertebrates of the early and middle Cenozoic; evolution, paleoclimate and paleogeography.	Seismic reflection studies of northwest arctic Canada, Beaufort Sea and Mackenzie Delta regions.
FIELDWORK LOCATION:	Baffin Island	Ellesmere Island; Axel Heiberg Island; Devon Island	
KEY WORDS:	Holocene, neoglaciation, glacier, moraines	Cenozoic, vertebrates, paleoclimates, evolution	seismic

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FAX:	(613)992-2468	(403)	(403)292-5377
SUB-DISCIPLINES:		Geophysics, reservoir engineering	Stratigraphy, sedimentology
DESCRIPTION OF WORK:	Research into mineral exploration methods in glaciated terrain; quaternary geology; periglacial land forms; geochemistry of surficial sediments, vegetation, and peat.	Geological, geophysical, reservoir engineering evaluations throughout Canada.	Stratigraphy and sedimentology of Mesozoic and Cenozoic rocks in the Northern Yukon and adjacent N.W.T. and in the subsurface of the Mackenzie Delta, Tuktoyaktuk Peninsula and Beaufort Sea.
FIELDWORK LOCATION:	Central Canadian Arctic		Yukon; Richardson Mountains; Inuvik
KEY WORDS:	mineral exploration, permafrost	reservoir	Mesozoic, Cenozoic

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SUB-DISCIPLINES:	Paleontology, sedimentology	Precambrian sedimentology, stratigraphy, volcanology	Thermal maturation of organic matter
DESCRIPTION OF WORK:	Invertebrate paleontology, sedimentology and geological history of Silurian rocks; particular emphasis on reefs and reef-associated fossils such as corals, sponges, stromatopordids.	Field-based studies of Precambrian strata of the Canadian Shield and NW Cordillera, with emphasis on basinal analysis, paleoenvironments, paleosols, primary sedimentary and volume structures, stromatolites.	Database information concerning thermal maturation in sedimentary basins.
FIELDWORK LOCATION:	Somerset Island; Cornwallis Island; Devon Island; Ellesmere Island	Thelon Plain; Dismal Lakes; Great Bear Lake; Yellowknife; Ogilvie Mountains; Wernecke Mountains	
KEY WORDS:	Silurian, reefs, fossils	Precambrian, stromatolites, microfossils	thermal maturity

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SUB-DISCIPLINES:	Glacial history and geomorphology	Seismology, earthquakes	Permafrost, hydrogeology
DESCRIPTION OF WORK:	Mapping of surficial geology and explaining the glacial and postglacial evolution of the land with emphasis on sea level change, global change, permafrost, engineering aspects and hazards, and economic minerals and ice flows dynamics.	Monitor and locate earthquakes in Canada.	Distribution and stability of permafrost along submerging and emerging coasts in Arctic Canada; ground water flow in the permafrost active layer and transport of contaminants there; laboratory and field experiments to determine the mechanics of frost heaving in bedrock.
FIELDWORK LOCATION:	Eastern Arctic; northern Manitoba	Ungava; Québec; Nahanni; N.W.T.	Churchill, Manitoba; Mackenzie Delta, N.W.T.; northern Québec
KEY WORDS:	mapping, sea level, permafrost	earthquake, seismic	permafrost, contamination, frost heave, bedrock

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SUB-DISCIPLINES:	Engineering geology	Geophysics, seismology	Geochemistry and petrology
DESCRIPTION OF WORK:	The description and analysis of rock avalanches in the Mackenzie Mountains of N.W.T. and the analysis of slope deformation features in the Kluane Ranges, Yukon.	Study of the crustal structure of the polar margin and adjacent areas.	Studies of mafic igneous rock sites throughout North with goals of understanding volcanism in the geologic history of Canada.
FIELDWORK LOCATION:	Yukon; N.W.T.	Beaufort Sea	Yukon; Hudson Bay; Ungava; Coppermine River; Baffin Island
KEY WORDS:	avalanches, landslides, natural hazards	seismic, gravity, magnetic, conductors	basalt, greenstone, volcanics, mantle

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SUB-DISCIPLINES:	Sedimentology	Mineral exploration, mineral resources	Marine geology, remote sensing
DESCRIPTION OF WORK:	Sedimentology and diagenesis of sedimentary rocks, in particular of carbonates.	Geological mapping and research; monitor mineral resources and exploration.	Quaternary marine geology of arctic and northern regions; iceberg scour research; application of synthetic aperture radar for mapping sea ice and detecting icebergs.
FIELDWORK LOCATION:	Rocky Mountains	Great Slave Lake; Arctic Islands; Bathurst Inlet	
KEY WORDS:	diagenesis, carbonates	mineral exploration, mapping	iceberg scours, SAR, sea ice

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SUB-DISCIPLINES:	Petrology, geochemistry		
DESCRIPTION OF WORK:	Petrology of igneous intrusions and volcanic activity associated with the opening of the north Atlantic Ocean during the Tertiary (approximate 55 million years ago.)	Geological mapping at 150,000 to 1,250,000 scale to establish stratigraphic, structure and tectonic framework for the regions mineral resources.	Co-ordinating setup and operation of through ice piston coring system including 2.5 million BTU ice melting system.
FIELDWORK LOCATION:		Yukon	Beaufort Sea
KEY WORDS:	basalt, alkali rocks, lavas	mapping, tectonics	ice coring

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SUB-DISCIPLINES:	Tectonique, géologie structurale, géologie économique	Engineering geology, granular resources management	Stratigraphy, paleo-oceanography
DESCRIPTION OF WORK:	Relations structurales, statigraphique et metallogéniques des formations précambriennes de la fosse du Labrador ainsi que des cisaillements anciens lacalisés dans les Monts Torngat.	Northern granular resources inventory and management program covering 46% of Canada's land area and adjacent offshore areas, ensuring adequate geoscience information is available to determine the location, quantity and quality of potential deposits of construction materials.	Foraminiferal biostratigraphy, quantitative stratigraphy and timescales, history of world oceans.
FIELDWORK LOCATION:	Nord du Québec; Labrador; Monts Torngat	Beaufort Sea; Yukon; N.W.T.	Ellesmere Island
KEY WORDS:	precambrien, deformation, tectonique, metallogenie	aggregates, databases, GIS	Foraminifera

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SUB-DISCIPLINES:	Geophysics	Terrain science	Gitologie (ore deposits)
DESCRIPTION OF WORK:	Interpretation of marine geophysical data (industry and government multichannel seismic data, refraction data, high resolution seismic data, magnetics, gravity) to map bedrock geology and determine regional tectonic setting and history.	Mapping of surface materials and geomorphic processes; interpretation of geological history and environmental change.	Exploration, evaluation geologique et métallogénie
FIELDWORK LOCATION:	Gulf of St. Lawrence; Hudson Bay; Baffin Bay	Newfoundland	Ungava
KEY WORDS:	seismic, refraction, tectonic	quaternary, terrain	ore deposits

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SUB-DISCIPLINES:	Cretaceous stratigraphy, paleontology		
DESCRIPTION OF WORK:	Identification of paleontological materials from Cretaceous rocks; taxononic description of Cretaceous molluscs.	Paleomagnetism of Mesozoic sills from Axel Heiberg and Ellesmere Islands; extended research of dyke swarms in Southern Ellesmere and Devon Islands.	High resolution aeromagnetic surveys to define the continental margins of the arctic basin in the sector from Canada to Greenland.
FIELDWORK LOCATION:		Ellesmere Island; Devon Island	Arctic Ocean
KEY WORDS:	Cretaceous, Molluscs	diabase, dykes	aeromagnetic, continental margins

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SUB-DISCIPLINES:	Structural geology	Cenozoic; Palynology	Geology, mineralogy
DESCRIPTION OF WORK:	Regional geological mapping of pre-quaternary bedrock; kinematic studies; seismic interpretation for structure and stratigraphy; salt tectonics and analysis of salt-based foldbelts.	Cenozoic palynology of high northern latitudes including dinoflagellates, spores and pollen of the Paleogene of Spitsbergen, and Labrador Sea; neogene dinoflagellates of Baffin Bay, Labrador Sea, Norwegian Sea; neogene dinoflagellate taxonomy and biostratigraphy.	Curator, national mineral and meteorite collection of Canada; research on high grade metamorphic assemblages; canadian meteorite project.
FIELDWORK LOCATION:	Ellesmere Island; Melville Island; Prince Patrick Island; Bathurst Island		Arctic Islands
KEY WORDS:	mapping, deformation, seimic, tectonics	Cenozoic palynology, dinoflagellates, spores, pollen, North Atlantic, spitsbergen, Baffin Bay	meteorites

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SUB-DISCIPLINES:	Exploration miniére, pétrolière	Palynology, paleobotany, stratigraphy, sedimentology	Quaternary geology, geomorphology
DESCRIPTION OF WORK:	Déchiffrer la signature des matières organiques associées aux gîtes de sulfures plombo-zincifères.	Palynology and paleobotany of late Tertiary strata in the arctic achipelago (L.V. Hills); Palynology and stratigraphy of the Kanguk Formation (late cretaceous) Sverdrup Basin, Arctic Archipelago (L.M. Neunez-Betelu and A. MacRae Graduate Students.)	Surficial materials mapping by field and airphoto methods; quaternary glacial and non-glacial history; active and inactive geomorphological processes; sea level change; correlation with offshore.
FIELDWORK LOCATION:	Petite Île de Cornwallis	Arctic Islands (Banks Island to Meighen Island); Sverdrup Basin (Ellesmere Island to Banks Island)	Arctic Islands, N.W.T., Queen Elizabeth Islands
KEY WORDS:	minéralisation, sulfure, plomb, zinc, matière organique	dinoflagellata, spores, pollen, cretaceous, tertiary, formations	Quaternary, mapping

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SUB-DISCIPLINES:	Precambrian geology	Precambrian paleontology, stratigraphy	
DESCRIPTION OF WORK:	Geologic maps of precambrian shield North of 60 degrees latitude for "Geology of North America" and "Circum-Pacific map" projects; ongoing tectonic synthesis of circum-arctic precambrian geology.	Study of Precambrian fossils; morphology, paleobiology, distribution in time and space (evolution).	Aeromagnetic surveys on shore and offshore.
FIELDWORK LOCATION:	N.W.T.	Mackenzie Mountains; Belcher Islands; East coast of Hudson Bay	Arctic Islands; Greenland
KEY WORDS:	precambrian, shield, tectonics	precambrian, fossils, stromatolites, metazoans microfossils	Aeromagnetic, surveys

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SUB-DISCIPLINES:	Geophysics, seismology	Quaternary geology, geomorphology, engineering geology	Geophysics
DESCRIPTION OF WORK:	Routine determination of earthquake epicentres; microseismic and macroseismic surveys after large earthquakes.	Preparation of surficial geologic maps using photointerpretion and field checking; assessment of engineering properties and/or terrain sensitivity within mapped units; evaluation of permafrost and ground ice conditions within mapped units; determination of quaternary history from stratigraphic data.	Application of shallow seismic refraction and reflection techniques for mapping permafrost and properties of materials on land and subseabottom.
FIELDWORK LOCATION:	Yukon; N.W.T.	Yukon; N.W.T.	Mackenzie Delta; Beaufort Sea; Arctic Island
KEY WORDS:	earthquakes, tectonics	terrain sensitivity, permafrost, ground ice, quaternary history	permafrost, seismic, subsea

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SUB-DISCIPLINES:	Paleomagnetism	Metamorphic geology, sedimentology, regional synthesis	Marine geophysics
DESCRIPTION OF WORK:	Paleomagnetic study of the Permian Esayoo Formation, Cretaceous.	Field work in Baffin Island and in Labrador, Ellesmere Island, Thule Greenland, Melville Peninsula, followed by writing of reports and compiling geological maps.	Study of sedimentary basins and crustal structure by means of geophysical techniques particularly seismic refraction. The origin evolution and position of the tectonic plates in the Arctic and their influence on global climate.
FIELDWORK LOCATION:	Nares Strait	Baffin Island; Ellesmere Island; Greenland; Melville Peninsula	Polar continental margin; Arctic Ocean; Baffin Bay
KEY WORDS:	tectonic, permian	metamorphism, regional synthesis, mapping	seismic, tectonics, global climate

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SUB-DISCIPLINES:	Resource assessment	Geology-sedimentology, stratigraphy, paleontology	Quaternary geology, engineering geology
DESCRIPTION OF WORK:	Compilation and field work to obtain most up-to-date geological map, collection of stream sediments, till and rock samples for geochemical analysis; reports on mineral and hydrocarbon potential, linked to Environment Canada, Parks, prior to establishment of new parks.	Research in sedimentology, stratigraphy and paleontology of Silurian and Devonian strata.	Geotechnical measurement of soils susceptiblity of soils to erosion.
FIELDWORK LOCATION:	Bluenose Lake to Paulatuk area.	Hay River; Mackenzie Valley; Arctic Islands	Hudson Bay; James Bay
KEY WORDS:	resource assessment, parks, sediments	Silurian, Devonian, strata	soils, erosion

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SUB-DISCIPLINES:	Environmental geoscience	Surficial geology	Structural geology, tectonics
DESCRIPTION OF WORK:	Research on permafrost distribution, mapping and processes; impact of development and global change on north; genesis and history of permafrost and ground ice; modelling of earth temperature and response to change.	Quaternary geology studies; stratigraphy and sedimentation, mapping, sea level studies, drift exploration, paleogeoenvironmental investigations.	Regional geologic bedrock mapping with ongoing structural analysis, geochronology, geochemistry and tectonic interpretation.
FIELDWORK LOCATION:	Mackenzie Valley; Mackenzie Delta; Keewatin; Arctic Islands	N.W.T.	Contwoyto Lake, N.W.T.
KEY WORDS:	permafrost, heat transfer, radar, climate change	quaternary, sea level, drift	Slave province, tectonics, gold

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SUB-DISCIPLINES:	Economic geology	Quaternary geology	Economic geology
DESCRIPTION OF WORK:	Study of copper and molybdenum deposits.	Mapping surficial deposits; Quaternary geomorphology, stratigraphy.	Petroleum exploration
FIELDWORK LOCATION:		Saskatchewan; Yukon; Manitoba; Western Arctic	
KEY WORDS:	mineral deposits, copper, molybdenum	mapping	exploration, petroleum

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SUB-DISCIPLINES:	Engineering geology, permafrost	Minéralogie, chimie, physique geomathematique	
DESCRIPTION OF WORK:	Engineering geology studies of properties of frozen materials as applied to hydrocarbon resources development/construction in the Arctic, both field and laboratory.	L'Analyse des éléments mineurs dans les charbons; surtout les terres rares.	Geological mapping in Archean volcanic belts.
FIELDWORK LOCATION:	Northern Canada		Camroon River; Beaulieu River and back river areas
KEY WORDS:	permafrost, geotechnics, pipelines		mapping, Archean

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SUB-DISCIPLINES:		Géologie du Quaternaire	Regional mapping, structural geology and tectonics
DESCRIPTION OF WORK:	Levés séismologiques dans l'Ungava et dans les monts Mackenzie, T.N.O.	Programmes de datation par thermoluminescence de sediments quaternaires.	Regional geologic mapping of bedrock exposures; regional geological evolution of Northern Yukon and arctic continental margin; plate tectonic evolution of southern Arctic Ocean basin.
FIELDWORK LOCATION:	Ungava; Mackenzie Mountains	Île de Banks; Île de Bylot	Yukon; N.W.T.; offshore continental margin
KEY WORDS:	séismique, tremblements de terre, earthquakes, seimic	quaternaire, datation, thermoluminescence, stratigraphic, changements climatiques; Quaternary, climate change	tectonics, mapping

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SUB-DISCIPLINES:		Quaternary geology, geomorphology	Biostratigraphy-palynology
DESCRIPTION OF WORK:	Exploration plays of the Arctic Islands are identified by integrating all geological, geophysical, and geochemical data; exploration plays are families of prospects and discovered pools that share a common history of hydrocarbon generation, migration, reservoir development and trap configuration; potentials of petroleum resources are estimated using probabilistic methods applied at the play level.	Mappping of surficial deposits and landforms, studying glacial dispersal, drift geochemistry and permafrost distribution; relationship of glacier and sea level changes to climate change; investigating processes and deposits of glacial, glaciomarine and glacialacustrine sedimentation.	Study of Cretaceous-Neogene sediments from Arctic Canada, Alaska north slope, and northern Siberia with emphasis on dinoflagellate stratigraphic zonations and definition of paleoenvironments.
FIELDWORK LOCATION:		Great Slave Lake; Axel Heiberg Island	Mackenzie Delta; Alaska North Slope
KEY WORDS:	petroleum, resources, assessment	quaternary mapping, climate change, permafrost, sedimentation	dinoflagellates, paleoenvironments, Cretaceous

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SUB-DISCIPLINES:		Paleobotany	Sedimentary geology
DESCRIPTION OF WORK:	Lower Paleozoic, paleontology, biostratigraphy, paleoecology and geological history of northern and arctic Canada.	Examination of the evolution of selected genera of the conifer family Pinaceae; paleogeography and evolutionary history (techonic history) of the northern hemisphere and its implications for plant dispersal through ancient land bridges; paleoclimate and paleoenvironment of early Tertiary high latitude regions.	Lower Paleozoic stratigraphy
FIELDWORK LOCATION:	Yukon; Mackenzie Mountains; N.W.T.	Axel Heiberg Island, Ellesmere Island, N.W.T.	Ellesmere Island
KEY WORDS:	Ordovician, Silurian, Devonian	conifers, pinaceae, paleoclimate, plant dispersal	Kennedy Channel fm., Ella Bay fm., Ellesmere Group

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SUB-DISCIPLINES:		Marine Geology	Paleontology, paleoecology, quaternary geology
DESCRIPTION OF WORK:	Regional structural and stratigraphic synthesis of Anderson Plains and Colville Hills areas; primary interest is in the buried Proterozoic sequence as revealed on reflection seismic data.	Arctic marine geoscience technology.	Research, using fossils of insects and plants, on deposits ranging in age from late Tertiary to present, in order to reconstruct former environments and document past climate change and the response to past climate change.
FIELDWORK LOCATION:	N.W.T.	East Coast	Yukon; Alaska; Western N.W.T.; Queen Elizabeth Island; Banks Island
KEY WORDS:	proterozoic, seismic	marine technology	quaternary, tertiary, CELIA, climate change, macrofossil, fossil

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SUB-DISCIPLINES:	Geophysics	Stratigraphy and mapping	Paleontology
DESCRIPTION OF WORK:	Geological and solid earth applications of geophysics and hydrocarbon exploration data; seismic (reflection and refraction) potential field interpretation; integration of geological and remote sensing data into seismic based research and oil and gas exploration studies in frontier Canada.	Stratigraphic description, interpretation and mapping of lower Paleozoic formations.	Ordovician, Silurian conodont taxonomy and biostratigraphy
FIELDWORK LOCATION:	Beaufort Sea; Mackenzie Delta; Eagle Plain; Anderson Plains; Arctic Islands; Labrador; Hudson Bay	Arctic Islands	Yukon; Arctic Islands; Baffin Island
KEY WORDS:	seismic, gravity, magnetic, well data	Lower Paleozoic, mapping	Ordovician, Silurian, conodont

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SUB-DISCIPLINES:	Paleontology/palynology	Petroleum exploration and development, resource management	Igneous petrology, volcanology
DESCRIPTION OF WORK:	Biostratigraphic and taxonomic palynology of Devonian rocks of the Queen Elizabeth Islands, the Yukon and the western District of Mackenzie.	Multidisciplinary approach to the solution of problems associated with the discovery and development of petroleum resources of Canada's Northern Offshore in a socially and environmentally acceptable manner.	Tectonicomagmatic evolution of the Sverdrup Basin, Canadian Arctic Archipelago; the objectives of the project are to define the connection between opening of the Arctic Ocean, major crustal extension and subsidence in the Sverdrup Basin during the Cretaceous period and voluminous basaltic and bimodal magmatism.
FIELDWORK LOCATION:	Queen Elizabeth Islands; Yukon; N.W.T.		Ellesmere Island; Axel Heiberg Island; Sverdrup Basin
KEY WORDS:	spores, Devonian, biostratification	petroleum, offshore, resource management	magmatism, volcanism

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SUB-DISCIPLINES:	Paleontology	Structural geology, stratigraphy, sedimentology, paleontology, geochemistry, geophysics, petroleum geology	
DESCRIPTION OF WORK:	Research on the origin and earliest evolution of multi-cellular animals (Metazoa) during the Proterozoic-Phonerozoic transition (700-520 million years ago); research based on fossil collections of Ediacaran fossils, trace fossils and small shelly fossils.	Regional geological mapping and sedimentary basin studies.	Subsurface geology of Mackenzie Delta-Beaufort Sea, Ordovician-Silurian geology of Brodeur Peninsula, northwestern Baffin Island.
FIELDWORK LOCATION:	Wernecke Mountains, Yukon; Mackenzie Mountains, N.W.T.	Arctic Islands	Mackenzie Delta; Beaufort Sea; Brodeur Peninsula; Baffin Island
KEY WORDS:	Ediacaran, fossil, reef	petroleum, basin analysis, mapping	Tertiary, Ordovician, Silurian, clastics, carbonates

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SUB-DISCIPLINES:		Paleontology, brachipods, tentaculitids	Seismology
DESCRIPTION OF WORK:	Ordovician and Silurian rocks, their distribution, character and resources.	Stratigraphy and biostratigraphy of Devonian rocks in District of Mackenzie, Yukon and the Hudson platform.	Monitoring of earthquake activity in the Arctic and throughout Canada, and earthquakes and underground nuclear explosions worldwide; aftershock surveys.
FIELDWORK LOCATION:	Yukon; N.W.T.		Arctic Canada
KEY WORDS:	Ordovician, Silurian	devonian, brachipods, tentaculitids	earthquakes

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SUB-DISCIPLINES:	Paleontology, stratigraphy, biostratigraphy	Geophysics	
DESCRIPTION OF WORK:	Lower paleozoic biostratigraphy, paleoecology and biostratigraphy; conodonts and other microfossils; paleogeography of northern polar regions.	Magnetic and gravity potential field compilation, modelling and interpretation.	Compilation of geological bedrock maps and tectonicostratigraphic correlation charts of the Northern mainland and Arctic Archipelago at scales of 1:1 million, 1:2 million 1:5 million and 10 million.
FIELDWORK LOCATION:		North Atlantic, Arctic basin	
KEY WORDS:	paleozoic, fossils, conodonts	magnetics, gravity	bedrock, mapping

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SUB-DISCIPLINES:	Techonics, economic geology, metallogeny	Paleomagnetism	Geochronology, tectonics
DESCRIPTION OF WORK:	Studies of selected areas of the Slave Province and its mineral deposits.	Sampling the late Precambrian stratigraphic sequence to obtain a paleomagnetic history of the late Precambrian as an aid to geological studies.	Geological field work in northern regions (Québec, Baffin Island, Arctic Island), laboratory work designed to determine the ages of rocks.
FIELDWORK LOCATION:	N.W.T.	Mackenzie Mountains; Wernecke Mountains; Ogilvie Mountains; N.W.T.; Yukon	Québec; Baffin Island; Arctic Islands
KEY WORDS:	Archean, slave province, mineral	paleomagnetism, Precambrian	tectonics

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SUB-DISCIPLINES:	Sea floor morphology and sedimentation	Precambrian geology	
DESCRIPTION OF WORK:	Completing a scientific compilation called "Marine Science Atlas of the Beaufort Sea"; Folio 1: Sediments Folio 2: Geology and Geophysics Folio 3: Sea floor morphology and Folio 4: Environments and uses.	Geological transect Hudson Bay to Leaf Bay at the latitude of Lake Minto-Leaf River; reconnaissance geological mapping at scales of 1:250,000 to 1:500,000.	Geological mapping and petrological study of igneous rocks of the shield.
FIELDWORK LOCATION:	Beaufort Sea	Lake Minto-Leaf River, Ungava Peninsula, Québec.	Keewatin; Dufant Lake
KEY WORDS:	sea floor, sediments	mapping	Proterozoic, tectonics, potassic rocks, mapping

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SUB-DISCIPLINES:		Biostratigraphy and paleontology	Sédimentologie, cartographie, stratigraphie, minéralogie
DESCRIPTION OF WORK:	Manager, Austra Information Center, Alberta oil sands, Technology and Research Authority.	Jurassic molluscs and Jurassic regional biostratigraphy.	Travaux sur le quaternaire du Canada et le cénozoique des zones intertropicales, dans le cadre des recherches nordiques; étude des dépots d'origine glaciaire à la Baie James; dans les territoires du nord-ouest et éventuellement dans le nord du Québec.
FIELDWORK LOCATION:		Queen Elizabeth Islands; Yukon; Mackenzie Delta, N.W.T.	Bernard Harbour, Radisson, Québec
KEY WORDS:		Jurassic, molluscs	sédiments, glacier, Quaternaire, sediment, Quaternary

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SUB-DISCIPLINES:	Geophysics	Quaternary mapping, geotechnical evaluation, airphoto interpretation, permafrost/ground ice studies	
DESCRIPTION OF WORK:	Use of seismic techniques, borehole logging for the delineation of permafrost.	Evaluation of materials, permafrost and ground ice distribution through air photo interpretation and field mapping along pipeline and transportation corriders; Quaternary mapping and stratigraphy; granular material evaluation; exploration geochemistry; evaluation of archeological potentials; evaluation of northern terrain sensitivity.	Bedrock and surficial geological mapping.
FIELDWORK LOCATION:	Mackenzie Delta; Beaufort Sea	Yukon; Beaufort Coast; Mackenzie Valley; Baffin Island; Melville Island; Keewatin; Kluane	Yukon
KEY WORDS:	permafrost, subsea, seismic	mapping, permafrost, geotechnical, remote sensing	mapping

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SUB-DISCIPLINES:	Palynology	Sea floor mapping, marine geophysics, hydrography, seismic hazard mapping	
DESCRIPTION OF WORK:	Dating and correlating rock horizons, mainly Jurassic recent, including; coal measures, oil and gas play, e.g. offshore Labrador, Arctic Islands, Beaufort, Mackenzie Delta and West Coast; metaliferous deposits, (gold, silver, platinum, titanium and others); geothermal gradients, and paleotemperature estimates.	Sea floor mapping using high resolution geophysical techniques and direct sampling.	Studies on the carboniferous and permian fusulinaceans and biostratigraphy in the Canadian Arctic Archipelago.
FIELDWORK LOCATION:	Labrador; Ellesmere Island; Banks Island; Beaufort Sea; Mackenzie Basin; Yukon	Beaufort Sea; Lancaster Sound; Baffin Shelf; Hudson Bay; Labrador Shelf	Ellesmere Island
KEY WORDS:	dating, correlating, geothermal, ore bodies	sea floor, sub-bottom, mapping	carboniferous, permian

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SUB-DISCIPLINES:	Quaternary geology		Geophysics
DESCRIPTION OF WORK:	Last interglacial of the circumpolar region.	Stratigraphy, structure and metamorphic petrology of the Turner Lake area, N.W.T.	Ice Island drift and positioning; high latitude positioning.
FIELDWORK LOCATION:	Arctic Islands, N.W.T.; Alaska	N.W.T.	High Arctic
KEY WORDS:	quaternary, interglacial	structure, metamorphic	Canadian Ice Island, high latitude positioning

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SUB-DISCIPLINES:	Geophysics, permafrost mapping, land and marine	Geophysics, gravity surveys	
DESCRIPTION OF WORK:	Use of electrical methods to map permafrost distribution, determine thickness and estimate ice content.	Regional and detailed gravity surveys in northern British Columbia, Yukon and Northwest Territories.	Mapping the quaternary geology of Southern and Eastern Victoria Island; study of land forms and their sediments, terrain analysis, paleoecological assessment and a historical analysis of the terrain.
FIELDWORK LOCATION:	Beaufort Sea; Mackenzie Delta	N.W.T.; northern British Columbia	Cambridge Bay; N.W.T.
KEY WORDS:	electrical resistivity, induced polarization, permafrost mapping	gravity, surveys	quaternary, glacial sediments, periglacial environments

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FAX:	(613)	(613)788-4490	(403)492-2030
SUB-DISCIPLINES:	Glacial geology, Quaternary, environmental geochemistry, exploration geology	Petrology	Meteoritics
DESCRIPTION OF WORK:	Working on glacial sedimentological models for glaciers on Bylot Island; have worked on physical limnology of arctic lakes and genesis of patterned ground; most recently completed Mineral Development Agreement (Federal/N.W.T.) on methods of gold exploration in glacial drift in area of seruidly frozen terrain, Kaniuak Lake-Maguse Lake areas, Keewatin.	Geothermometry and geobarometry of metasediments; petrology of the NW Slave Province.	Location of concentrations of meteorites in and around ice caps in the Canadian Arctic; participant in the Canadian Arctic Meteorite Project ("CAMP") which seeks to recover meteorites and meteoritic debris from on and around ice masses in the Canadian Arctic.
FIELDWORK LOCATION:	Bylot Island; Pond Inlet	Torp Lake, N.W.T.	Devon Island; Barnes ice cap; Baffin Island
KEY WORDS:	mineral exploration, glacier, sedimentation, patterned ground	metamorphism, slave province, cordierite	ice caps, meteorites, micrometeorites, "CAMP"

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FAX:	(613)952-8987	(403)492-7033	(902)
SUB-DISCIPLINES:	Geophysics, gravity	Vertebrate palaeontology	Sedimentology, environmental marine geology
DESCRIPTION OF WORK:	Mapping and explaining the gravity field mainly in Arctic regions.	Wenlockian (Silurian) heterostracan faunas of the Delorme group, Southern Mackenzie Mountains, N.W.T.	Sediment transport and coastal stability in Beaufort Sea; acoustic and physical property correlations.
FIELDWORK LOCATION:		Avalanche Lake, Mackenzie Mountains, N.W.T.	Beaufort Sea
KEY WORDS:	gravity, mapping	Wenlockian, heterostracan, Delorme	sediments, transport, acoustic

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FAX:	(613)996-3726	(613)992-0190	(613)995-9273
SUB-DISCIPLINES:	Geochemistry	Quaternary geology, geomorphology	Metamorphic petrology, structure, tectonics
DESCRIPTION OF WORK:	Resource assessment of proposed additions to Nahanni National Park Reserve using stream sediments (heavy minerals and silts); data integration using SPANS (tm) (a geographic information system) and catchment basin analysis.	Regional mapping, quaternary stratigraphy, periglacial processes.	1:500,000 geological mapping of Precambrian orogenic belts; microprobe analysis of metamorphic mineral assemblages; estimates of pressure and temperature in earth's crust.
FIELDWORK LOCATION:	South Nahanni River, District of Mackenzie, N.W.T.	Canadian Arctic	Ungava Penisula, Northern Québec
KEY WORDS:	resource assessment, stream sediment, data integration, catchment basin analysis	mapping, glacial, periglacial, land forms	metamorphic, precambrian, mountain belts, tectonics

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SUB-DISCIPLINES:	Geophysics, tectonics, gravity	Geophysics, oceanography	Structural geology, regional bedrock mapping, geochronology
DESCRIPTION OF WORK:	Studies of regional crustal structure and tectonic evolution of the Arctic Ocean Basins through geophysical studies, with emphasis on the gravity field.	Permafrost research, global change.	Regional bed rock mapping with emphasis on structure, metamorphism, and geochronology of the Archean and Proterozoic rocks in the western Churchill Province, District of Keewatin, N.W.T..
FIELDWORK LOCATION:	Arctic Ocean	Arctic Islands; Beaufort Sea	N.W.T.
KEY WORDS:	marine, geologic structure, tectonics, gravity	permafrost, global change	bedrock mapping, Archean, Proterozoic

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FAX:	(416)682-9020	(613)	(613)831-2730
SUB-DISCIPLINES:	Environmental change (climate, vegetation), quaternary geology	Geophysics	Surficial geology, geochemistry
DESCRIPTION OF WORK:	Palynological and paleoecological studies of Late Quaternary, lake sediments, peat, and other deposits, with focus on postglacial environmental change.	Organization and interpretations of aeromagnetic surveys.	Pipeline route assessment; land use assessment and planning; surficial geology mapping-District of Keewatin and Mackenzie; geochemical soil surveys-District of Mackenzie; airphoto interpretation; permafrost studies, boulder, tracing.
FIELDWORK LOCATION:	Eastern Arctic	Lincoln Sea; Arctic Ocean	N.W.T.; Yukon
KEY WORDS:	environmental change, quaternary	aeromagnetic surveys	permafrost, soil, glacial transport, airphoto interpretation

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FAX:	(613)995-9273	(613)	(416)475-9840
SUB-DISCIPLINES:	Regional geology, metamorphic petrology		Geophysics, mineral exploration, archeo-geophysics
DESCRIPTION OF WORK:	Bedrock mapping in area of deformed and metamorphorsed crystalline rock; study of origin and processes of regional metamorphism.	Lead isotope study of ore deposits in Archean rocks in the Slave Province, N.W.T.	Development and utilization of geophysical techniques, hardware and software for geophysical surveying, remote sensing and physical property measurements.
FIELDWORK LOCATION:	N.W.T.	Mackenzie District, N.W.T.	
KEY WORDS:	mapping, metamorphism	lead, Archean	instrumentation, surveying, software

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SUB-DISCIPLINES:	Geophysics, aeromagnetics	Geophysics	Regional geology (stratigraphy, structural mapping, tectonics)
DESCRIPTION OF WORK:	Aeromagnetic survey over Yukon and N.W.T.	Mapping of permafrost distribution and characteristics using seismic reflection and refraction methods combined with electromagnetic techniques.	Establishment of the stratigraphy, structure and tectonic history, mainly of pre-carbonic ferrous rocks (sedimentary, volcanic, metamorphic and intrusive); presentation of information in comprehensive reports and geological maps.
FIELDWORK LOCATION:		Mackenzie Valley; Mackenzie Delta	Northern Ellesmere Island; Axel Heiberg Island
KEY WORDS:	aeromagnetic survey	seismic, electromagnetic, permafrost, mapping	paleozoic, precambrian, tectonics

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TELEPHONE: **FAX:**	(604)666-4852 (604)666-1124	(403)292-7093 (403)292-5377	(902)426-7735 (902)426-4104
SUB-DISCIPLINES:	Economic geology	Biostratigraphy, palynology	Micropaleontology, paleoceanography
DESCRIPTION OF WORK:	Study of stratiform sediment-hosted zinc-lead deposits.	Upper paleozoic rocks of Sverdrup Basin, Canadian Arctic archipelago and northern Yukon; age environment of deposition, and thermal maturity determined from palynomorphic stratigraphic correlation with circumpolar areas.	Interprets distribution and stable isotopes in foraminifera from marine sediment for late quaternary paleoceanographic models on the continental shelf of the Canadian Arctic and off eastern Canada.
FIELDWORK LOCATION:	Eastern Yukon	Melville Island; Ellesmere Island; Devon Island; Northern Yukon	Gulf of St. Lawrence; Hudson Strait; Canadian Arctic archipelago
KEY WORDS:	zinc, lead, stratiform	Upper Paleozoic	foraminifera, deglaciation

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SUB-DISCIPLINES:	Géologie du Quaternaire	Earthquake studies, seismology	
DESCRIPTION OF WORK:	Cartographie des formations en surface; stratigraphie des dépots quaternaires; reconsititution des environnments au Quaternaire; étude des processes géologiques actuels.	Cataloging of earthquake activity in Canada; seismic hazard information for engineering activities.	Analysis of pollen spores and dinoflagellates from continental and marine sedimentary rocks of Cenozoic age, in order to date the rocks and interpret paleoclimates.
FIELDWORK LOCATION:	Île de Banks; Île de Victoria; Plaine cotiere du Yukon et du District de Mackenzie		Northwest Arctic Mainland; Beaufort Sea
KEY WORDS:	formations en surface, quaternaire	earthquakes, seismic, hazards	dinoflagellates, Cenozoic, spores

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SUB-DISCIPLINES:		Paleomagnetism	Petroleum geology, stratigraphy sedimentology
DESCRIPTION OF WORK:	Icebergs and iceberg scouring from a geological/engineering perspective; scouring, sea bed mapping, hazards to exploration and development offshore.	Paleomagnetic study of the Permian Esayoo formation, Cretaceous Isachsen and Strand Fiord formations.	Subsurface studies of reservoir rocks of the Beaufort-Mackenzie Basin by means of petrographic, stratigraphic and geochemcical studies.
FIELDWORK LOCATION:	Eastern Canadian Continental Shelf	Ellesmere Island; Axel Heiberg Island	
KEY WORDS:	icebergs, scouring	tectonics, reference field, reversals	petroleum, sedimentation

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SUB-DISCIPLINES:	Oil and gas exploration
DESCRIPTION OF WORK:	Subsurface analysis of borehole cuttings, cores and well-logs, together with seismic and geochemical/geothermal data.
FIELDWORK LOCATION:	Mackenzie Valley; Mackenzie Delta; Beaufort Sea
KEY WORDS:	seismic, geochemical, geothermal

GLACIOLOGY -- GLACIOLOGIE

	Blake, Erik W. Dept. of Geophysics and Astronomy University of British Columbia Vancouver, BC, Canada V6T 1W5	Fisher, David Andrew Terrain Sciences Glaciology Section Ottawa, ON, Canada K1A 0E8	Henderson, Dr. Grant S. Department of Geology University of Toronto 22 Russell Street Toronto, ON, Canada M5S 3B1
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FAX:	(604)228-6047	(613)996-9990	(416)978-3938
SUB-DISCIPLINES:	Glaciology	Glaciology, paleoclimate	Mineral chemistry, atmospheric chemistry
DESCRIPTION OF WORK:	Studies of subglacial water pressure, deformation, conductivity, turbidity, streaming potentials, and acoustic properties are being carried out under a surge-type glacier with the objective of understanding the cause of the glacier surging instability.	Mass balance measurements of Canadian arctic ice cores on Canadian ice caps; chemical isotope physical records from arctic ice caps recent trends in pollution over last few centuries.	An investigation of the morphology and geochemistry of insoluble residue in ice cores and arctic haze; including characterision of particles in order to obtain information about likely source.
FIELDWORK LOCATION:	Trapridge Glacier, St. Elias Mountains, Kluane National Park, Yukon	Devon Island ice cap; Agassiz ice cap; Ellesmere Island; Meighen Island	Agassiz Glacier
KEY WORDS:	glaciers, surging	ice, ice caps, paleoclimate, pollution trends	particles, haze, ice cores

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SUB-DISCIPLINES:	Glacier hydrology, hydrology of glacierized basins	Glacial hydrology	Ice climatology and applications
DESCRIPTION OF WORK:	Study of the variability of discharge and suspended sediment concentrations from glaciers and glacierized basins; impact of variability on physical processes of erosion and deposition; occurrence of flash floods including draining of ice-dammed lakes.	The focus of the research is to define the hydrological mechanisms governing discharge peaks and suspended load in a glacialized basis. The investigations are intended to understand the mechanisms governing the quality of water reaching the glacier snout and assess the form and stability of the subglacial drainage system.	Development of national archive of ice information.
FIELDWORK LOCATION:	Yukon; Canadian Rockies	Kluane National Park, Yukon	
KEY WORDS:	glaciers, sediment, flash floods, variability, erosion, deposition		ice, data

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SUB-DISCIPLINES:	Glaciology	Mass balance studies, sedimentation in glacier lake	Geochemistry of snow and ice, study of microparticles in snow and ice
DESCRIPTION OF WORK:	Documentation of past and present history of glacierized areas of Canada--to determine 1) areal and volume of these water resources; 2) link fluctuations of Canada's glaciers to hydrological and climate record; 3) response to global warming; and 4) impact on Canada's water resources.	One glacier on Baffin Island was selected for mass balance studies, a nearby lake for sediment studies.	Geochemical studies and micro particle analysis of snow and ice to understand past climatic records; study of ice cores drilled from the Agassiz ice cap and Devon Island of Canadian Arctic to interpret the past climates and climatic trends of present and future.
FIELDWORK LOCATION:	Western Canada	Grimell Glacier, Frobisher Bay, N.W.T.	Queen Elizabeth Islands; Mer de glace; Agassiz ice cap; Devon Island; Meighen Island; Melville Island
KEY WORDS:	glaciers, inventory, water resources, global warming	mass balance, sedimentation	global warming, ozone, acid rain, paleoclimate

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SUB-DISCIPLINES:	
DESCRIPTION OF WORK:	High arctic lake and sea ice growth, movement, microstructure, physical properties, environmental impact, ice physics, in-situ tests, ice cap core analysis, climatology, remote sensing and ground verification, shelf ice, iceberg and Ice Island studies, ice breaker and safe passage.
FIELDWORK LOCATION:	Ellesmere Island; Isachsen; Mould Bay; Peary Channel; Sverdrup Basin; Resolute; Grise Fiord; Pond Inlet; Baffin Bay
KEY WORDS:	ice, remote sensing

HISTORY -- HISTOIRE

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SUB-DISCIPLINES:	Fur trade and arctic exploration	International affairs	History of high arctic exploration, Arctic scientific research, Inuit-European relation
DESCRIPTION OF WORK:	Articles in recent issues of BC Studies, Journal of Canadian Studies, Essays on Canadian Writing, Études Canadiennes, and "profile" in Arctic; recently completed an edition of David Thompson's Columbia journals; working on an edition of Henday, Hearne and Adler.	"Soviet perception of Canada", research and analysis including the Arctic, science, and technology; data base includes all Soviet references to the Arctic (Canadian).	"Post human contact history of Ellesmere Island National Park Reserve"; "Pibloktoq" (arctic hysteria) and the Constructions of European-Inuit Relations"; "The Fort Conger Shelters and Vernacular daptation to the High Arctic, an oral history program in the community of Grise Fiord.
FIELDWORK LOCATION:	N.W.T.		Ellesmere Island; Grise Fiord, N.W.T.; Fort Conger
KEY WORDS:	fur trade	soviet perception, analysis, data base	Inuit, arctic hysteria

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SUB-DISCIPLINES:		Legal history, native land title	
DESCRIPTION OF WORK:	Government Inuit policy 1900 to present; exploration; sovereignty.	Historical approach to law enforcement, especially during the fur trade in western Canada; comparative history of native title.	Geohistory and sociology of mineral exploration in North America
FIELDWORK LOCATION:		Great Bear Lake; Fort Norman	
KEY WORDS:	exploration, sovereignty, Inuit	criminal, justice, native, land claim, fur trade	exploration, gold

	Houston, Stuart 863 University Drive Saskatoon, SK, Canada S7N 0J8	Lee, Mr. David E. National Historic Sites Environment Canada Ottawa, ON, Canada K1A 0H3	Levere, Dr. Trevor H. Inst. for the History and Philosophy of Science and Technology 316 Victoria College Toronto, ON, Canada M5S 1K7
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SUB-DISCIPLINES:			Science in Canadian Arctic exploration
DESCRIPTION OF WORK:	History of northern exploration, especially the Franklin expeditions; history of natural history in Arctic and Hudson Bay; medical diseases of native populations.	Historical research, native peoples	Nature and role of science in exploration of Canadian Arctic 1818-1918.
FIELDWORK LOCATION:			
KEY WORDS:	northern exploration, medical diseases	native peoples	exploration, role of science

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FAX:	(403)492-7219	(613)	(613)
SUB-DISCIPLINES:	Historical technology (clothing production)	History of technology	History and prehistory of the north and especially of arctic Canada
DESCRIPTION OF WORK:	Social, economic, historic, and cultural dimensions influencing seamstresses work; the methods seamstresses use to indicate group identity, regional variations in skin preparation techniques, and regional variations in circumpolar Inuit clothing styles; research is conducted primarily by participant observation, informal interviews, and third party documents to create case studies.	History of military construction in the Canadian Arctic.	Arctic policy and administration including arctic science policy and Inuit affairs.
FIELDWORK LOCATION:	N.W.T.; Greenland; Alaska; USSR; Chukotka		Igloolik
KEY WORDS:	historical Inuit technology, skin preparation, clothing production, Inuit, conservation	military, construction	Inuit, arctic policy, arctic science policy

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SUB-DISCIPLINES:	The work of Christian missionaries in the Arctic in the nintenth century.	Changing economic patterns in the economy of Canada's western interior
DESCRIPTION OF WORK:		A compilation with Bennett McCardle of the records of the Department of the Interior; a survey of the transition of Canada's western interior from the mobile hunting/ fur trading economy to a sedentary economy.
FIELDWORK LOCATION:		Prairie Provinces; Western Arctic; Yukon
KEY WORDS:	missionaries	economic patterns, western interior, hunting, fur trading

HYDROGRAPHY, HYDROMETRY AND BATHYMETRY -- HYDROGRAPHIE, HYDROMÉTRIE ET BATHYMÉTRIE

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SUB-DISCIPLINES:		Bathymetry	
DESCRIPTION OF WORK:	Research and development of marine systems used in hydrographic surveys in the Arctic.	Airborne electromagnetic bathymetric system to measure shallow ocean depths in the Arctic even when ice cover is present; airborne ice thickness system to measure sea ice thickness regardless of conductivity.	Hydrographic surveys for nagivation and resource exploration and exploition.
FIELDWORK LOCATION:			Western Canadian Arctic; Beaufort Sea
KEY WORDS:	nautical, charting, bathimetry, data acquisition	sea ice thickness, airborne bathymetry	surveying, navigation, charting

	O'Neil, Dr. Robert A. Canada Centre for Remote Sensing 2464 Sheffield Road Ottawa, ON, Canada K1A 0Y7	Power, Andrew 1 - 101 Thornill Drive Dartmouth, NS, Canada B3B 1S2	Stephenson, Mr. Frederick E. Institute of Ocean Sciences P.O. Box 6000 Sidney, BC, Canada V8L 4B2
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SUB-DISCIPLINES:			Tide and current surveys
DESCRIPTION OF WORK:	Development of applications of remote sensor data particularly in field of hydrography, oceans and control mapping, intergrations of diverse data sets.	Ocean mapping, precise navigation; geographic information systems	Tidal surveys in the Western Arctic and water level surveys on the Mackenzie-Athabasca system; provide information on tides, water levels and storm surges to hydrographers, engineers, oceanographers and the general public.
FIELDWORK LOCATION:	Simpson Strait	Arctic Canada	Western Arctic; Mackenzie-Athabasca system
KEY WORDS:	remote sensing, mapping	navigation, GIS	tides, water levels, storm surges, oil spills

HYDROLOGY -- HYDROLOGIE

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FAX:	(819)953-0546	(306)975-5143	(306)975-5143
SUB-DISCIPLINES:	Hydrochemistry, geomorphology, glaciology and climatology	Glaciology, remote sensing	
DESCRIPTION OF WORK:	Hydrological regime of delta lakes and channels. Investigation of breakup patterns, prevailing climatic conditions, and characteristic ice jams associated with thermal and mechanical breakups.	Develop portable operational techniques using electromagnetic properties to measure snow cover water equivalent. Analysis of glacier mass balance data from western Canada to detect trends and identify relationship with global circulation models.	Development of model for internal melting by short wave radiation of river ice and the effects on porosity and ice strength during spring breakup.
FIELDWORK LOCATION:	Mackenzie River; Mackenzie Delta; Yukon River	Cordillera; Rockies; Western Canada	
KEY WORDS:	northern rivers and deltas, breakup, lakes, hydrology, ice jams and hydrochemistry	glacier mass balance, snow-melt run-off models, remote sensing, climate trends	internal melting of ice, river ice breakup

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TELEPHONE:	(519)885-1211 ext.3231	(519)884-1970 ext.2159	(306)975-5758
FAX:	(519)746-2543	(519)886-9351	(306)975-5143
SUB-DISCIPLINES:	Environmental geochemistry; paleoclimatology		Evapotranspiration
DESCRIPTION OF WORK:	Application of stable isotope and geochemical techniques to hydrology, especially water balance in natural and artificial (e.g. tailings ponds) water bodies; paleoclimatic reconstruction using stable isotopes in lake sediments.	Examining hydrology and chemistry of Colour Lake catchment, Expedition Fiord, Axel Heiberg Island, N.W.T., Understanding and quantifying differences in the flowpathways and chemistry of terrestrial drainage between spring (thin active layer) and fall (thick active layer).	Development of models for evaporation, transpiration over water surfaces in prairie region, including special case situations such as snow, frozen soil and forest environments.
FIELDWORK LOCATION:	District of Keewatin; Fort Simpson area; Mackenzie Delta; Yathkyed Lake areas	Expedition Fiord, Axel Heiberg Island	Prairie provinces
KEY WORDS:	hydrology, stable isotopes, geochemistry, paleoclimatology	hydrology, chemistry, permafrost, active layer, High Arctic	evaporation, transpiration

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FAX:	(416)	(306)975-5143	(613)788-4490
SUB-DISCIPLINES:	Civil engineering water resources, mathematical modelling	snow-melt	Hydrogeology, permafrost, quaternary
DESCRIPTION OF WORK:	Physics of polar lakes and estuaries in arctic and antarctic regions.	Development of physically based models for snow-melt run-off in a permafrost environment; and model of lake levels under natural and altered delta hydrology.	Study of regional groundwater system in the Northern Cordellera; permafrost and massive ground ice investigations in the Mackenzie Delta and Northwest Siberia.
FIELDWORK LOCATION:	Yukon River, Headwater Lakes	Mackenzie Delta	Mackenzie Delta; Northwest Siberia
KEY WORDS:	ice, lakes, estuaries	snow-melt run-off, delta lakes, permafrost	permafrost, ground ice, ground water

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FAX:	(604)595-0653	(418)654-2562	(306)975-5143
SUB-DISCIPLINES:	Fluvial and coastal geomorphology, sediment transport, hydrometric data collection	Paleoecology	snow physics
DESCRIPTION OF WORK:	Synthesis of hydrometric data from the Mackenzie Delta, estimation of sediment transport rates in lower Mackenzie River, coastal mapping for oil spill response, assessment of coastal and riverbank stability in Western Arctic Islands, participation in Mackenzie environmental monitoring program, collection of hydrometric data in central Yukon, effluent disversion study on Pelly River.	Study of the lakes of Cornwallis Island in relation to their stratification; and possible origin of the bottom hypersaline material.	Measurement and modelling of dielectric properties of snow (0-10 MHZ) relevant to remote sensing of snow depth, water content.
FIELDWORK LOCATION:	Central Yukon; Mackenzie River Basin; Beaufort Sea coast; Western Arctic Islands	High Arctic; Ungava	
KEY WORDS:	geomorphology, monitoring, channel stability, sediment transport, coastal mapping	limnology, quaternary, meromietic heliotherm lakes, crater lake	snow physics, snow-melt, remote sensing

	Pomeroy, Dr. John Hydrological Sciences Division Nat. Hydrology Research Institute 11 Innovation Blvd. Saskatoon, SK, Canada S7N 3H5	Prowse, Dr. Terry D. National Hydrology Research Institute - 11 Innovation Blvd Saskatoon, SK, Canada S7N 3H5	Redshaw, Mr. Arthur G. Inland Waters Directorate Environment Canada Box 2970 Yellowknife, NT, Canada X1A 2R2
TELEPHONE: **FAX:**	(306)975-5511 (306)975-5143	(306)975-5737 (306)975-5143	(403)920-8500 (403)873-6776
SUB-DISCIPLINES:	Snow accumulation/transport snow management	Cold regions hydrology, hydrometeorology, glaciology permafrost	Water management
DESCRIPTION OF WORK:	Development of physically based models for snow management and increase of melt water infiltration and soil moisture reserves and for accumulation and transport of snow.	Focus on various components of cold regions hydrologic cycle, particularly that of freshwater ice and the factors controlling river ice break decay. Modelling of river ice breakup, hydrologic models of processes controlling run-off from wetlands in area of permafrost, and analysis of water balance of northern basins.	Gather and provide data on the quality and quantity of inland waters; carry out river basin planning and flood damage reduction programs.
FIELDWORK LOCATION:	Prairie region; Mackenzie Delta area	Fort Simpson; Liard River; Mackenzie Rivers; Nashwaak River, New Brunswick	N.W.T.
KEY WORDS:	snow management, blowing snow, snow accumulation	ice, breakup, mechanical strength, snowmelt run-off, northern hydrology, permafrost, river ice breakup	flood damage, water management

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TELEPHONE: **FAX:**	(416)736-5107 (416)736-5735	(46-18-505875) (46-18-542746)	(306)975-5760 (306)975-5143
SUB-DISCIPLINES:	Wetland and permafrost hydrology, climate change, global biogeochemical cycles.	Tundra hydrology, peat hydrophysics	Ice physics
DESCRIPTION OF WORK:	Determine of the sensitivity of northern peatlands to environmental change. Surface and ground water hydrology of peatland dominated basins. Role of hydrology in biogeochemical cycles of northern ecostems.	Water balance and soil water of arctic and sub-arctic sites with permafrost. Microhydrology of tundra peat and the binding of water in the molcular scale. The freezing-thawing cycle and its relationships to the physical properties of peat. Winter regime of soil water.	Modeling of formation, evolution of frazil ice and quantitative relationship of vertical and horizontal distribution of frazil ice in water flows.
FIELDWORK LOCATION:	Western Canada Arctic; Eastern Canada Subarctic, Hudson Bay lowlands	Truelove Lowland, Devon Island, N.W.T.; Whitehorse and Mayo, Yukon	
KEY WORDS:	Wetland hydrology, climatic change, biogeochemical cycles	tundra hydrology, peat, freezing and thawing, organic soil physics, diffuse double layer	frazil ice

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SUB-DISCIPLINES:	Snow, ice, permafrost
DESCRIPTION OF WORK:	Examination of the variation of hydrological phenomena (snow, rain, evaporation, run-off, moisture) in space and in time as an indication of local and regional variations in arctic climate; field study and modelling of slope hydrological processes, hydrology of permafrost terrain as a basis for predicting future global change; arctic wetland hydrology.
FIELDWORK LOCATION:	Arctic Islands; Ellesmere Island; Resolute; Eureka
KEY WORDS:	permafrost, snow, global change, snow-melt

INFORMATION SCIENCES -- INFORMATIQUE

	D'Orsay, Peggy Librarian, Yukon Archives Box 2703 Whitehorse, YT, Canada Y1A 2C6	Goodwin, Mr. Ross C. Arctic Institute of North America University of Calgary Calgary, AB, Canada T2N 1N4	Sherin, Andrew G. Atlantic Geoscience Centre P.O. Box 1006 Dartmouth, NS, Canada B2Y 4A2
TELEPHONE:	(403)667-5625	(403)220-4036	(902)426-7582
FAX:	(403)	(403)282-4609	(902)426-4266
SUB-DISCIPLINES:	Research/archival library	Online polar databases	Data management
DESCRIPTION OF WORK:	Mandate of Yukon Archives is to collect archival and imprint material on a comprehensive basis (both current and retrospective) for the Yukon Territory; representative (significant current and retrospective) of neighbouring jurisdictions (Alaska, Northwest Territories, British Columbia); selective (significant current titles) on topics involving polar and cold regions of special relevance to the Yukon.	The Arctic Science and Technology Information System (ASTIS); information retrieval and online database design; the development of a Canadian Polar Information System.	Coordination of informatics activities for the Atlantic Geoscience Centre including management of curation and GSC open file viewing facilites at the Bedford Institute of Oceanography.
FIELDWORK LOCATION:			
KEY WORDS:	archives, information retrieval	information retrieval, databases	informatics

	Sutherland, Mr. Rob Yukon College P.O. Box 2799 Whitehorse, YT, Canada Y1A 5K4	Taha, Mr. Bassam 2314 Sherbrooke Est # 04 Montréal, PQ, Canada H2K 1E5
TELEPHONE:	(403)668-8888	(514)527-4365
FAX:	(403)	(514)
SUB-DISCIPLINES:		
DESCRIPTION OF WORK:	Research into database term use and indexing of northern and native subjects; distance delivery of bibliographic materials to remote locations.	Intégration des voix, données, images; interconnexions des ordinateurs, implémentation des réseaux locaux, cablages, fibre optique et ses applications
FIELDWORK LOCATION:		
KEY WORDS:	databases, indexing	intégration, ordinateurs, réseaux locaux, fibre optique

LAW -- DROIT

	Grodinsky, Mr. William S. Suite 3900 1 Place Ville Marie Montreal, PQ, Canada H3B 4M7	Hunt, Ms. Constance D. Faculty of Law University of Calgary Calgary, AB, Canada T2N 1N4	Morse, Bradford W. Faculty of Law University of Ottawa Ottawa, ON, Canada K1N 6N5
TELEPHONE:	(514)878-8800	(403)289-7263	(613)564-4950
FAX:	(514)861-2241	(403)	(613)564-9800
SUB-DISCIPLINES:			Aboriginal treaty rights, land claims, environmental management
DESCRIPTION OF WORK:	Environmental work, economic development (including transfer of technology), energy production and regulation, local government, land issues, native issues.	Land claims agreements; resource and environmental management (legal framework).	Detailed work on canadian law as it effects Indians, Inuit and Metis and in particular, aboriginal rights, comprehensive land claims, constitutional development, self-government, justice systems and environmental management.
FIELDWORK LOCATION:			
KEY WORDS:	environment, native people, land claims, land, local government	aboriginal rights, environmental management	aboriginal rights, Canadian constitution, environmental law

	Spears, Joseph P.O. Box 11547 Vancouver Centre 2020 - 650 West Georgia Street Vancouver, BC, Canada V6B 4N7	Vander Zwaag, Mr. David L. Dalhousie Law School Halifax, NS, Canada B3H 4H9
TELEPHONE:	(604)683-9621	(902)494-1045
FAX:	(604)669-4556	(902)494-1316
SUB-DISCIPLINES:	Maritime and environmental law	Environmental law, law of the sea
DESCRIPTION OF WORK:	Various aspects of maritime and environmental law as it relates to the Canadian Arctic including shipping and hydrocarbon exploration and development.	Maritime claims and management rights of indigenous peoples; environmental management of northern industries; pollution control and arctic shipping.
FIELDWORK LOCATION:		
KEY WORDS:	maritime law, environmental law, shipping	pollution, arctic shipping, indigenous peoples

LINGUISTICS -- LINGUISTIQUE

	Cook, Dr. Eung-Do Department of Linguistics University of Calgary Calgary, AB, Canada T2N 1N4	Harnum, Betty R. 4930 - 43rd Street Yellowknife, NT, Canada X1A 1J7	Howard, Philip G. #32 - 2024 - 57th Street Edmonton, AB, Canada T6L 2Z3
TELEPHONE:	(403)220-5469	(403)920-6110	(403)450-1312
FAX:	(403)282-8606	(403)873-0106	(403)
SUB-DISCIPLINES:		Interpreter/translator training, Cross-cultural communication	
DESCRIPTION OF WORK:	Synchronic and diachronic studies of the Athapaskan languages; interested in the Eskimo and Algonquin languages.	Inuktitut and native language interpreter/translator training; court interpreter training; language training and cross-cultural workshops.	Slavey language of the Northwest Territories, Mackenzie Valley; phonemic analysis; pedagogical grammar; translation of the bible; dictionary of the verbs; Slavey, Dogrib, and Chipewyan language programs in Mackenzie Valley schools.
FIELDWORK LOCATION:	Alberta; Saskatchewan; Manitoba; N.W.T.	Yellowknife	Mackenzie Valley, N.W.T.
KEY WORDS:	ethnohistories, native languages, indigenous languages	Inuktitut, native languages, interpretation, translation	Slavey, Dogrib, Chipewyan, phonemic analysis

	Ireland, Jeanette Box 547 Iqaluit, NT, Canada X0A 0H0	Lowe, Dr. Ronald Département de langues et linguistique Université Laval Québec, PQ, Canada G1K 7P4	Pepper, Ms. Mary G. 5437 - 52 Street Yellowknife, NT, Canada X1A 3K1
TELEPHONE:	(819)979-0372	(418)656-5165	(403)873-2626
FAX:	(819)979-4868	(418)	(403)
SUB-DISCIPLINES:	Sociolinguistics, stylistics, translation theory, bilingual education		Amerindian languages, phonology
DESCRIPTION OF WORK:	To collect and analyse tests in Inuktitut, oral and written to discover the culturally preferred discourse patterns.	Analyse descriptive des trois dialectes Inuit de l'Arctique canadien de l'ouest.	The relationship between word formation and phonological processes in polysynthetic languages; curriculum development for native as a second language.
FIELDWORK LOCATION:	Iqaluit; Pond Inlet; Lake Harbour	Tuktoyaktuk; Inuvik	Yellowknife; Fort McPherson
KEY WORDS:	discourse, text, cultural expression	Inuvialuit, eskimo, dialects	Iroquoian, Athapaskan, Algonquian

	Sammons, Dr. Susan M. Box 600 Arctic College Nunatta Campus Iqaluit, NT, Canada X0A 0H0	Wilman, Dr. David Box 475 Iqaluit, NT, Canada X0A 0H0
TELEPHONE:	(819)979-4429	(819)979-4051 (O) 979-6575(H)
FAX:	(819)979-0513	(819)979-4579 (O) 979-6575(H)
SUB-DISCIPLINES:	Phonology, technical terminology, interpretation, translation (Inuktitut)	Advanced education, speech communication
DESCRIPTION OF WORK:	Inuktitut/English interpretation and translation; interpreting/translating in Canada's North Arctic languages.	Psycholinguistic analysis of Inuit children's oral language/language acquisition.
FIELDWORK LOCATION:	Iqaluit	Arctic Bay; Igloolik
KEY WORDS:	Inuktitut, interpretation, translation	Inuit, language acquisition, language strategies

MEDICINE -- MÉDECINE

	Canitz, Brenda T. Department of Behavioural Science University of Toronto 12 Queens Park Toronto, ON, Canada M5S 1A8	Freitag, Ms. Sharon C. Department of Health Government of the N.W.T. Yellowknife, NT, Canada X1A 2L9	Jacobs, Dr. Ira Defence and Civil Institute of Environment Medicine North York, ON, Canada M3M 3B9
TELEPHONE:	(416)978-8610	(403)873-7033	(416)635-2123
FAX:	(416)978-2087	(403)873-5072	(416)635-2104
SUB-DISCIPLINES:	Health care in native and northern areas	Biostatistics	Human physiology
DESCRIPTION OF WORK:	Social science research in the areas of northern health care, northern nursing, native health care, power, isolation, stress.	Develop a historical account of cancer patterns of the Inuit of Canada from 1969 onwards.	Human physiological responses to cold with specific focus on metabolism of skeletal muscle during shivering.
FIELDWORK LOCATION:	N.W.T.; Yukon		
KEY WORDS:	nursing, northern health care, native health care, stress	cancer, Inuit	physiology, shivering, metabolism

	Kaufert, Joseph M. Dept. of Community Health Services Faculty of Medicine University of Manitoba 750 Bannatyne, Winnipeg, MB, Canada R3E 0W3	Lutheran Medical Services Box 2400 Inuvik, NT. X0E 0T0	Minuk, Dr. Gerald Y. HSC WPG Winnipeg, MB, Canada R3A 1R9
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FAX:	(204)	(403)	(204)787-4826
SUB-DISCIPLINES:	Medical anthropology-health communication, disability		
DESCRIPTION OF WORK:	Currently conducting research on the incidence and social migration impact of end stage renal disease among Cree and Ojibway patients from remote bound communitites. Involvedin analysis of cultural and epidemiological dimensions of Alzheimer disease in Northern Cree communities.	Research on Nordic Personality - (N.P.) a successful adaption to Northern life and unique stressors. Research on Arctic Syndrome - (A.S.) breakdown of adaption to Northern life and unique stressors.	Hepatitis and alcoholism in Native Canadians.
FIELDWORK LOCATION:		Inuvik, N.W.T.	Keewatin
KEY WORDS:		Nordic Personality (NP), Arctic Syndrome (AS), desynchronosis, chronobiology, adaption, maladaption, mental disorder	hepatitis, liver cancer, alcoholism, cirrhosis

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FAX:	(204)774-8919	(204)774-8919	(403)492-7136
SUB-DISCIPLINES:	Pediatrics, epidemiology, community health	Medical Anthroplogy	Immunology, vaccines, nutrition
DESCRIPTION OF WORK:	Health status assessment infant nutrition (iron, vitamin D).	Health policy analysis; health care delivery evaluation.	Research on immunology of children, immune response to vaccines, effects of breastfeeding infants; Tuberculosis; BCG - vaccine; haemophilus influenzae; vaccines and infections; measles (rubeola).
FIELDWORK LOCATION:	Keewatin Region of N.W.T.; Winnipeg	N.W.T.; Chukotka Region, U.S.S.R.	Inuvik; Mackenzie
KEY WORDS:	Health status, Inuit, North American Indian, iron, infant behaviour	health care, Inuit	infections, infants

	Posti, Brian D. S111-750 Bannatyne Avenue University of Manitoba Winnipeg, MB, Canada R3E 0W3	Rode, Dr. Andris 50 Belmont Ave Ottawa, ON, Canada K1S 0V1	Rompkey, Dr. Ronald Department of English Memorial University St. John's, NF, Canada A1C 5S7
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FAX:	(204)774-8919	(613)	(709)737-4000
SUB-DISCIPLINES:		Physiology	Medical history
DESCRIPTION OF WORK:	Epidemiology of northern/native illnesses; human resources; northern health policy.	An assessment of the effects of twenty years of acculturation on fitness, growth, body composition and health.	Medical history, biography of Sir Wilfred Grenfell.
FIELDWORK LOCATION:		Igloolik	Labrador
KEY WORDS:	northern, policy, epidemiology	acculturation, cardio-respiratory fitness, body composition, health	Labrador medical biography

	Sampath, Dr. Hugh McCrobie 255 Lemarchant Road St. John's, NF, Canada A1E 1P8	Shephard, Dr. Roy Jesse 320 Huron St. Toronto, ON, Canada M5S 1A1	Singh, Dr. Mohan D.R. Faculty of Physical Education & Recreation Van Vliet Centre, Univ. of Alberta Edmonton, AB, Canada T6G 2H9
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FAX:	(709)	(416)978-4384	(403)492-2364
SUB-DISCIPLINES:	Psychiatry	Health promotion	Health and physical fitness
DESCRIPTION OF WORK:	Epidemiology of mental disorders in the Arctic. Phenomenology of mental disorders in the Arctic and its relationship to social and cultural changes in the Arctic. Epidemiology of suicide; psychiatric reprocussions of social change.	Physical fitness and health of Arctic community over a 20 year acculturation process, physiology of cold environments; acculturation of Inuit; fitness and lifestyle of Inuit.	Health and physical fitness of native population in northern British Columbia, Alberta and Saskatchewan.
FIELDWORK LOCATION:	Baffin Island; Canadian Eastern Arctic	Igloolik, N.W.T.	Northern British Columbia; Alberta; Saskatchewan
KEY WORDS:	Epidemiology, social change, cultural change	physical fitness, acculturation, cold physiology, Inuit	health, muscular strength, cardiovascular fitness, body composition

	Tremblay, Dr. Marc-Adelard M. A. 835 Nouvelle-Orléans Ste. Foy, PQ, Canada G1X 3J4	Vallerand, Dr. Andre L. 1133 Sheppard Avenue W. North York, ON, Canada M3M 3B9	Vanast, Dr. Walter J. 423 N. Paterson St. Madison, Wisc, 53703 USA
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FAX:	(418)656-2831	(416)635-2104	(608)
SUB-DISCIPLINES:			History of medicine
DESCRIPTION OF WORK:	Un synthése de l'état de santé des populations Cris et Inuit du grand Nord Québecois prenant en compte une perspective théorique inspirée de l'anthropologie médicale. Étude realisée en 1990 presentée à un congrés international à Novosibirsk.	Medical research in thermal physiology.	History of northern medicine, medicine in the North, the role of the churches in supplying medical needs, the interaction of traditional healing with herbal medicine, current health needs in the North, adjustment of southern health care training to northern needs.
FIELDWORK LOCATION:	Legrand, Nouveau-Québec	Toronto; Arctic Canada; France	Ungava; Coppermine; Holman; Yellowknife
KEY WORDS:	politique, sanitaires, santé des populations, Inuit, Cris	cold, heat, Arctic	Medicine, missions, traditional medicine, tuberculosis, epidemics, hospitals, doctors, shamanism, government policy, training

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SUB-DISCIPLINES: Public health

DESCRIPTION OF WORK: Health status of aboriginal population, impact of culture change on health, epidemiology of chronic non-communicable diseases, health surveys.

FIELDWORK LOCATION: Northwestern Ontario; Keewatin Region, N.W.T.; Northern Manitoba

KEY WORDS: Indians, Inuit, health status, surveys, chronic diseases

METEOROLOGY AND CLIMATOLOGY -- MÉTÉOROLOGIE ET CLIMATOLOGIE

	Agnew, Tom 4905 Dufferin Street Downsview, ON, Canada M3H 5T4	Barry, Dr. Roger G. University of Colorado Boulder, Colorado, 80309-0449 USA	Bello, Dr. Richard Department of Geography York University 4700 Keele Street North York, ON, Canada M3J 1P3
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FAX:	(416)	(303)492-2468	(416)
SUB-DISCIPLINES:		Glaciology, data management, remote sensing	Climatology
DESCRIPTION OF WORK:	Arctic climate and climate change, sea ice, remote sensing.	Studies of Arctic ocean ice/climate interactions, data management at National Snow and Ice Data Center for snow ice, sea ice and permafrost.	Energy balance climates of lakes and wetlands focussing on evaporation and scale dependencies of this process.
FIELDWORK LOCATION:		Baffin Island, Ellesmere Island, N.W.T.	Hudson Bay Lowlands; Churchill Northern Studies Center
KEY WORDS:	climate, sea ice, remote sensing	climate, sea ice, data	evaporation, advection, lakes

	Bilello, Mr. Michael A. 12 Spencer Road Hanover, New Hampshire 03755 USA	Boer, Dr. G.J. Atmospheric Environment Service 4905 Dufferin Street Donwsview, ON, Canada M3H 5T4	Brown, Mr. Ross D. Canadian Climate Centre 4905 Dufferin Street Downsview, ON, Canada M3H 5T4
TELEPHONE:	(603)643-4105	(416)739-4416	(613)996-4488
FAX:	(603)	(416)739-4521	(613)563-8480
SUB-DISCIPLINES:	Snow and ice conditions, climate trends, synoptic meteorology		Climatology
DESCRIPTION OF WORK:	Conduct meteorological, climatological, and environmental basic and applied studies on arctic research activities. Analysis short and long term weather and climate records in association with collected field data on snow covered physical properties, and the formation, growth and decay of lake, river and sea ice conditions.	Climate and climate change modelling using general circulation models; diagnostic studies of the climate system using data.	Marine climatology in general with specific interest in; development of models and associated techniques to estimate ice accretion loads on ships and offshore structures from freezing spray; research into possible effects of climate change on the offshore environment i.e. winds, waves, sea ice, icebergs.
FIELDWORK LOCATION:	Queen Elizabeth Islands; Ellesmere Island; Arctic Ocean		east coast of Canada (from Scatran Shelf to Baffin Bay)
KEY WORDS:	arctic meteorology, climatology, snow, ice cover	climate, modelling	ice, marine, climate change, ice accretion

	Headley, Mr. Angus N. Atmospheric Environment Service 4905 Dufferin Street Downsview, ON, Canada M3H 5T4	Hirt, Mr. Mory Unit 4 401 Bentley Street Markham, ON, Canada L3R 9T2	Issac, Dr. George A. Atmospheric Environment Service 4905 Dufferin Street Downsview, ON, Canada M3H 5T4
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FAX:	(416)739-4521	(416)477-0824	(416)739-4211
SUB-DISCIPLINES:	Climatology	Environmental planning, weather forecasting, climate change	Cloud physics
DESCRIPTION OF WORK:	Automatic weather stations and climatology.	Researching weather forecasting in arctic regions.	Research on Arctic clouds and cloud systems.
FIELDWORK LOCATION:	Baffin Island; Ellesmere Island; Mackenzie Valley; Mackenzie Delta	Beaufort Sea; Davis Strait	
KEY WORDS:	climate, autostations	forecasting, weather	storm systems, aircraft measurements

	Jacobs, Dr. John D. Department of Geography Memorial University St. John's, NF, Canada A1B 3X9	Lafleur, Dr. Peter Geography Department Trent University P.O. Box 4800 Peterborough, ON, Canada K9J 7B8	Landhaeusser, Mr. Simon-Markus Department of Forest Science 855 General Services Building University of Alberta Edmonton, AB, Canada T6G 2H1
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FAX:	(709)737-4000	(705)748-1246	(403)492-1153
SUB-DISCIPLINES:	Climatology	Climatology, climate change, evapotranspiration	Forest ecology
DESCRIPTION OF WORK:	Studies of mesoscale and local climates, climatic change, and Quaternary paleoenvironments, to improve mapping of regional climate.	Forest-atmosphere energy and mass interactions at the treeline forests.	Climate change at the forest-tundra boundary.
FIELDWORK LOCATION:	Baffin Island; Labrador	Churchill, Manitoba	Inuvik, N.W.T.
KEY WORDS:	climate, climate change, paleoenvironment	energy budget, forest climate, evaporation, canopy resistance	climate change, fire, tree establishment

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FAX:	(403)250-2610	(416)661-7171	(519)661-3808
SUB-DISCIPLINES:	Climatology, diffusion meteorology		Ionosperic measurements
DESCRIPTION OF WORK:	Climatological data concerning wind, temperature, and visibility at Brid Port Inlet on Melville Island; wind, temperature, and stability data at Parsons Lake N.W.T.	Atmospheric physics, mesoscale studies, precipitation research, climate analysis.	Measurements of ionospheric electron content and electric fields, studies of irregular ionospheric structure associated with auroras and polar cap magneospheric phenomenon.
FIELDWORK LOCATION:	Brid Point Inlet, Melville Island, Parsons Lake, N.W.T.	Newfoundland; Labrador; Arctic Island	Sachs Harbour; Churchill; Resolute Bay; Cambridge Bay
KEY WORDS:	fog, wind, ambient stability, data	clouds, mesoscale	ionosphere, aurora

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FAX:	(416)577-7773	(416)739-4521	(514)398-6115
SUB-DISCIPLINES:		Climate analysis and impacts	Étude des processus physiques, biologiques, chimiques et socio-économiques en relation avec l'environnement et surtout le climat
DESCRIPTION OF WORK:	Measurement of incident ultraviolet light and comparison of different assay methods; sampling by instant read-out and by long term dosimetry.	National program of arctic climate studies, focussing on climate change and its impacts, and on offshore arctic climatology.	Modélisation global du climat; cycles biogéochimiques et hydrologiques; microclimat et paramètre des processus de surface; impact du climat et des changements globaux.
FIELDWORK LOCATION:	Ellesmere Island; Devon Island	Baffin Island; Ellesmere Island; Mackenzie Valley	
KEY WORDS:	ultraviolet light, ozone	climate, variability, climate change	changement globaux, global change

	O'Donnell, Mr. Brian J. Atmospheric Environment 4999 - 98th Ave Edmonton, AB, Canada T6B 2X3	Overland, James E. PMEL/NOAA 7330 56th Ave., N.E. Seattle, WA USA	Parker, Mr. Neil M. Atmospheric Environment Service Twin Atria Bldg, Room 240 4999-98 Ave Edmonton, AB, Canada T6B 2X3
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FAX:	(403)468-7950	(206)526-6815	(403)468-7950
SUB-DISCIPLINES:	Climatology		
DESCRIPTION OF WORK:	Collection of meteorological and climatological data in Alberta, the N.W.T. and Yukon in support of Canada's weather forecasting and climate programs; applications research conducted within the organization.	Sea ice motion and modelling, air, sea, ice interaction	Currently the final year of a three project to improve the undertaking of polar lows. Polar lows are small vortices that, given certain initial conditions, may form in very cold airmass flowing over open bodies of water. They are often accompanied by visibility reducing precipitation (snow and/or rain) and rapid wind increases up to gale and storm force.
FIELDWORK LOCATION:	N.W.T.; Yukon	Western Arctic	
KEY WORDS:	weather, data	boundary layer, drag coefficients, sea ice	polar lows, storms

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FAX:	(416)739-4211	(416)739-4521	(416)739-4521
SUB-DISCIPLINES:	Precipitation mesoscale	Marine climatology	Atmospheric chemistry
DESCRIPTION OF WORK:	Study of the structure of Arctic storms and their associated precipitation; First field project of Beaufort and Arctic Storms Experiment (BASE) slated for fall 1994.	Applied research in marine meteorology especially in those areas with implications for engineering design and operation of offshore facilities, e.g. winds, waves, icing, climate change.	Baseline monitoring of greenhouse gases and aerosols and their impact on future climates.
FIELDWORK LOCATION:	Beaufort Sea Region		Alert, N.W.T.
KEY WORDS:	storms, mesoscale, precipitation	marine, wind, wave, modelling	greenhouse, aerosol

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TELEPHONE:	(514)283-1107	(416)739-4910
FAX:	(514)283-7149	(416)739-4221
SUB-DISCIPLINES:		Statistical weather forecasting
DESCRIPTION OF WORK:	Réseau d'acquistion de données atmosphériques dans le nord Québecois et la Terre de Baffin; dissémination de l'information météorologique; impacts d'un changement climatique dans les régions arctiques.	Development of computer-based statistical methods for short range (0-48 hours) forecasting of weather parameters (temperature, precipitation, cloudiness, etc.)
FIELDWORK LOCATION:		
KEY WORDS:	atmosphere, changement, climatique, climate change	weather, forcasting

NUTRITION -- ALIMENTATION

	Kuhnlein, Dr. Harriet V. Dietetics and Human Nutrition MacDonald College, McGill Univ. 21, 111 Lakeshore Road Ste-Anne de Bellevue, PQ, Canada H9X 1C0	Wein, Dr. Eleanor E. Dept. of Foods and Nutrition 308 Home Economics Building University of Alberta Edmonton, AB, Canada T6G 2M8
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FAX:	(514)398-7739	(403)492-1153
SUB-DISCIPLINES:	Human nutrition, arctic food systems	Applied human nutrition
DESCRIPTION OF WORK:	Use of traditional indigenous foods and market foods; nutritional health status; dietary quality; contaminents in food systems; cultural values of food systems in the Arctic.	Dietary assessment and food beliefs and food preference studies among Native Canadians (Indian and Metis) in northern Alberta and N.W.T.; use of country foods by northern Native Canadians.
FIELDWORK LOCATION:	Baffin Island; Mackenzie Delta; Yukon	Northern Alberta; N.W.T.
KEY WORDS:	nutrition, indigenous foods; indigenous peoples, contaminents	nutrition; food beliefs, food perference, country foods, indigenous foods, indigenous peoples

OCEANOGRAPHY -- OCÉANOGRAPHIE

	Allen, Dr. Susan E. Department of Oceanography University of British Columbia 6270 University Boulevard Vancouver, BC, Canada V6T 1W5	Anderson, Neil M. 615 Booth Street Ottawa, ON, Canada K1A 0E6	Baird, Samuel D. 351 St. Joseph Bvld. Hull, PQ, Canada K1A 0H3
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FAX:	(604)228-6091	(613)996-9053	(819)953-5361
SUB-DISCIPLINES:	Physical oceanography		Under-ice instrumentation development
DESCRIPTION OF WORK:	Modelling of the flow through the Arctic archipelago at sub-inertial frequencies.	Ocean mapping and hydrographic surveys of Canadian Arctic archipelago.	Design and development of physical oceanographic systems within an area of low horizontal magnetic field intensity; unmanned automatic data collection systems for oceanographic physics below an ice cover.
FIELDWORK LOCATION:		Canadian archipelago	Lancaster Sound; Penny Channel; Resolute
KEY WORDS:	modelling, strait flow, baroclinic flow	surveying, navigation, mapping	instrumentation, ocean currents

	Bunn, Dr. Frank E. Suite 200, Kinsmen Bldg. 4700 Keele Street North York, ON, Canada M3J 1P3	Carmack, Dr. Eddy C. Institute of Ocean Sciences P.O. Box 6000 Sidney, BC, Canada V8L 4B2	Clarke, Dr. Allyn R. Bedford Institute of Oceanography P.O. Box 1006 Dartmouth, NS, Canada B2Y 4A2
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FAX:	(416)665-9473	(604)356-6746	(902)426-7827
SUB-DISCIPLINES:	Satellite operational systems and data products	Physical oceanography and limnology	
DESCRIPTION OF WORK:	Operational near real-time acquisition, analysis and dissemination of satellite, remote sensing data products and custom software/hardware display systems for oceanographic, meteorological and hydrology applications.	Circulation and water mass formation in oceans and lakes with application to pollution and climate change.	The formation and transport of the intermediate and deep water of the world ocean with particular focus on the North Atlantic, Labrador Sea and Greenland Sea.
FIELDWORK LOCATION:		Arctic Ocean; Yukon; USSR	Labrador Sea; Greenland Sea
KEY WORDS:	satellite, data analysis, hardware, software	circulation, water mass formation	circulation, convection, climate

	Collins, Dr. Michael J. The Institute for Space and Terrestrial Science 4850 Keele Street North York, ON, Canada M3J 3K1	Crocker, Dr. Greg B. Centre for Cold Ocean Resources Engineering Memorial University Newfoundland St. John's, NF, Canada A1B 3X5	Dixit, Dr. Bharat 120 Hawkdale Close NW Calgary, AB, Canada T3G 3A6
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FAX:	(416)665-2032	(709)737-4706	(403)263-7847
SUB-DISCIPLINES:	Remote sensing of sea ice	Sea ice geophysics	Physical oceanography-ice-environmental sciences
DESCRIPTION OF WORK:	Study digital remotely sensed imagery (esp. microwave imagery) of sea ice to understand the relationship between the image measurements and the physical and electrical properties of sea ice.	Wave-ice interaction, physical properties of sea ice, thermodynamics, acoustics.	Physical oceanography, environmental monitoring and forcasting, vessel/structure performance monitoring, ice interaction and remote sensing efforts for oil and gas, marine transportation.
FIELDWORK LOCATION:		Labrador Sea; Beaufort Sea; Antarctic	Beaufort Sea; Northwest Passage; Lake Melville; High Arctic
KEY WORDS:	remote sensing, sea ice	ice, waves, thermodynamics	ice, data acquisition, marine transportation

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FAX:	(604)266-8855	(902)425-4464	(604)681-3607
SUB-DISCIPLINES:	Physical oceanography	Environmental sciences, meteorology and engineering	
DESCRIPTION OF WORK:	Numerical modelling of: tides, currents, tsunamis, turbidity flows, waves, winds; anlaysis of current meter and tide gauge data, harmonic and spectral analysis; development of computer software for analysis and display of data.	Oceanographic and meteorological data collection and analysis; sea ice modelling, wave climate and spectral wave modelling; ocean circulation, environmental impact assessment, offshore design criteria and weather forecasting.	Acoustic studies of ice behaviour and properties; studies of ice-water interaction.
FIELDWORK LOCATION:		Beaufort Sea; northern Labrador Sea	Arctic Canada
KEY WORDS:	waves, currents, tides, modelling	wave, offshore design, ice, climate, EIA	ice, acoustics

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FAX:	(902)468-5341	(613)	(604)
SUB-DISCIPLINES:	Physical oceanography, sea ice and iceberg studies; ocean acoustics	Physical oceanography	Physical oceanography
DESCRIPTION OF WORK:	Research and studies of: ocean currents, waves, water levels, temperatures, salimtes; sediment transport; ocean acoustics; sea ice and icebergs; remote sensing applications; inter-disciplinary activities involving biological research; and instrument development.	SAR measurement of ocean wave spectra, SAR imaging of ocean surface and subsurface features and wind assimilation in marine weather forecasts.	Tides, currents and their interactions with coastal features; environmental effects of engineering projects in the north.
FIELDWORK LOCATION:	Beaufort Sea; Arctic Islands; Baffin Bay; Davis Strait; Labrador Sea	Strait of Georgia; Labrador Shelf; Hudson Bay; Hudson Strait; Grand Banks	Beaufort; High Arctic; Hudson Bay; Svalbard
KEY WORDS:	sea ice, icebergs	remote sensing, microwave sensors	tides, currents, EIA

	Herman, Dr. Alex W. Department of Fisheries and Oceans P.O. Box 1006 Dartmouth, NS, Canada B2Y 4A2	Hirose, Mr. Thomas 902-280 Albert Street Ottawa, ON, Canada K1P 5G8	Ingram, Dr. Grant R. Meteorology Department McGill University 805 Sherbrooke Street, W. Montreal, PQ, Canada H3A 2K6
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FAX:	(902)426-2256	(613)238-1734	(514)398-6115
SUB-DISCIPLINES:		Sea ice studies, climate change	Physical oceanography
DESCRIPTION OF WORK:	Arctic instrumentation; sub-ice sampling.	Sea ice kinematic studies; ice hazard studies.	Research work on under ice dynamics, river plumes and coastal oceanography.
FIELDWORK LOCATION:	Resolute, N.W.T.		Hudson Bay; Hudson Strait; Arctic Archipelago
KEY WORDS:	instrumentation, sub-ice, plankton, algae, incubation	sea ice, remote sensing	ice, ocean, tide, plume, river, coast

	Irvine, Mr. Tom A. 275 Slater Street Ottawa, ON, Canada K1P 5H9	Jones, Dr. Edward P. Department of Fisheries and Oceans Bedford Institute of Oceanography P.O. Box 1006 Dartmouth, NS, Canada B2Y 4A2	Khandekar, Dr. Madhav Environment Canada 4905 Dufferin Street Downsview, ON, Canada M3H 5T4
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FAX:	(613)230-8707	(902)426-2256	(416)739-4221
SUB-DISCIPLINES:			
DESCRIPTION OF WORK:	Arctic navigation and marine transportation; cargo handling and pollution containment sytems.	Investigate sources and circulation patterns of water masses in the Arctic Ocean and marginal seas; measure concentrations of chemical constituents including anthropogenic tracers (e.g.CFC) to determine rates of transport and consumption or production of chemicals; assess the rate of sequestering of carbon in arctic regions.	Numerical modelling of sea ice movement in the Arctic in general and in the Beaufort Sea in particular investigating the impact of boundary layer winds and water currents on ice floe movements.
FIELDWORK LOCATION:	Eastern Arctic	Arctic Ocean; Greenland Sea; Norwegian Sea; Labrador Sea	
KEY WORDS:	navigation, marine, transportation, pollution containment	climate, CO$_2$ chlorofluoromethanes	ice movement, water currents, ice floe, modelling

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FAX:	(604)356-6746	(604)228-6091	(604)356-6746
SUB-DISCIPLINES:	Arctic oceanography	Currents, tides, waves	Polar oceanography (physical)
DESCRIPTION OF WORK:	Research on sea ice, physical oceanography	Theoretical studies of flow through archipelago tides in shallow and icy waters, interactions of waves with ice and currents.	Air sea interaction at high latitudes, thermodynamics of sea ice; circulation in Arctic Ocean fjords; physics of floating ice; pollution problems, i.e., mixing in of effluents (soil in sea ice).
FIELDWORK LOCATION:	Canadian Arctic Archipelago		Canadian Arctic Islands; Arctic Ocean
KEY WORDS:	sea ice	tides, currents, waves	sea ice, pollution

	MacDonald, Robie W. Institute of Ocean Sciences P.O. Box 6000 Sidney, BC, Canada V8L 4B2	Mayer, Dr. Larry A. Department of Oceanography Dalhousie University Halifax, NS, Canada B3H 4J1	Melling, Dr. Humfrey Institute of Ocean Sciences P.O. Box 6000 Sidney, BC, Canada V8L 4B2
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FAX:	(604)356-6390	(902)494-3877	(604)356-6746
SUB-DISCIPLINES:	Ocean chemistry	Marine geology, geophysics, paleoceanography, paleoclimatology	
DESCRIPTION OF WORK:	Examination of shelf-arctic interior exchanges of water and materials; near-shore transport of contaminants; estuarine processes; primary productivity; hydrocarbon fluxes and budgets.	Analysis of sediment cores and high resolution geophysical records in order to reconstruct past oceanographic and climate conditions; studies of the physical and acoustic properties of arctic marine sediments.	In the Canadian Arctic, studies on; sea water properties and structure in Arctic Shelf seas, particularly in the freezing season; the nature and causes of ice movements and ocean currents; the thickness and detailed morphology of sea ice.
FIELDWORK LOCATION:	Beaufort Sea; Mackenzie Shelf; Canada Basin	Arctic Canada	Arctic Ocean; Beaufort Sea; Canadian Arctic Archipelago
KEY WORDS:	hydrocarbons, isotopes, transport, primary productivity	sediment, acoustic	ocean, sea ice, current temperature, salinity, pressure ridge

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FAX:	(902)494-3877	(902)426-4104	(613)995-6146
SUB-DISCIPLINES:	Chemical oceanography	Geological, geotechnical	Meteorology
DESCRIPTION OF WORK:	The study of chemical processes affecting Arctic Ocean water, including the study of chemical tracers of water masses; the production of volatile organic compounds in arctic waters and their release to the atmosphere (in particular, brominated organics).	Sediment physical and geotechnical properties for the study of sea bed processes and paleoceanography.	Oil and gas related meteorology, oceanography, marine engineering, hydrography.
FIELDWORK LOCATION:	Beaufort Sea	Arctic Ocean, Beaufort Sea	
KEY WORDS:	chemical tracers, organobromines	marine, sediment	oil and gas

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FAX:	(416)739-4687	(604)356-6746	(902)426-7827
SUB-DISCIPLINES:	Sea ice drift modelling, microwave remote sensing		Physical oceanography
DESCRIPTION OF WORK:	Research and development of operational sea ice drift modelling, oil spill motion modelling; participation in polar expeditions for the purpose of gathering data to evaluate models; a monograph entitled "Sea ice movement: analysis and prediction" is under preparation.	Determination of ocean currents and other physical/chemical properties in the area west of Axel Heiberg and Ellesmere Islands; free drifting floats, released at 500 to 1000 m depth near the shelf break will be tracked acoustically to measure currents.	Modelling wind-wave-current interactions at the ocean surface; data assimilation.
FIELDWORK LOCATION:	Canadian Arctic; East Greenland Sea; Norwegian Sea	The Polar Continental Shelf Project Ice Island Base.	
KEY WORDS:	sea ice, modelling, remote sensing, drift, oil spill	currents, Canada	waves, currents, data assimilation

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FAX:	(902)426-9388	(418)656-5902	(709)737-4569
SUB-DISCIPLINES:		Ichthyology, fish larvae early life history	Biological oceanography
DESCRIPTION OF WORK:	Studies the dynamics of marine ecosystems in coastal shelf and deep ocean waters with special emphasis on the interdependence of biological communities, their temporal and spatial variability and their relationship with the physical and chemical conditions of the marine environment.	Distribution, food, growth, and survival of anadromous and marine fish larvae in ice covered seas; spatial and temporal relationships between fish larvae emergence and zooplankton production.	Spatial dynamics of large marine organisms in cold ocean ecosystems.
FIELDWORK LOCATION:		Hudson Bay	Labrador current
KEY WORDS:	primary production, remote sensing, marine optics	fish larvae, zooplankton	distribution, nekton

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SUB-DISCIPLINES:	Polar oceanography, sea ice studies, air-sea-ice interaction	Chemistry, environmental science	Remote sensing of sea ice
DESCRIPTION OF WORK:	Atmospheric/oceanic boundary layer measurements under sea ice/in marginal ice zones; turbulence structure at the sea ice-water interface; crystallographic structure of sea ice associated with microalgae in the brine cells.	Marine chemistry in the Arctic Ocean.	Energy flux density estimation at ice atmosphere interface over the entire north water polynya based on passine microwave satellite measurements, low level aircraft measurements and ground truth observations.
FIELDWORK LOCATION:	Hudson Bay	Canadian Ice Island	Baffin Bay
KEY WORDS:	sea ice, ice interaction, microalgae, brine, boundary layer		polynya, sea ice, heat fluxes, north water

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SUB-DISCIPLINES:	Numerical modelling, data analysis	Chemical oceanography	Marine chemistry
DESCRIPTION OF WORK:	Review of tides and currents in Northwest Passage, Beaufort Sea; numerical modelling of tides and circulation in stratified waters.	Sea ice studies by stable oxyzen isotope method; stable isotope geochemistry of sediments; marine ecosystems studies in ice covered water.	Trace metal distributions in arctic waters.
FIELDWORK LOCATION:		Eastern Arctic; Arctic Ocean; Baffin Island; Baffin Bay	
KEY WORDS:	modelling, tides, circulation	sea ice, isotopes, sediments	trace metals

PHYSICS -- PHYSIQUE

	Mitchell, Dr. J. B. A. Department of Physics University of Western Ontario London, ON, Canada N6A 5C2	Paulson, Dr. Ken K. V. University of Saskatchewan Department of Physics Saskatoon, SK., Canada S7N 0W0	Ray, Ajit Kumar Suite 318-A 2767 Innes Road Gloucester, ON, Canada K1B 4L4
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SUB-DISCIPLINES:		Geoelectromagnetic fields, mineral prospecting	Oceanography, meteorology, geophysical fluid dynamics
DESCRIPTION OF WORK:	Research into reduction of smoke from combustion of crude oil spills.	Application of principles of cybernetics to theoretical and applied geophysics; at high latitudes, the study of naturally-occurring electromagnetic fields; their propagation and interaction with the solid earth as well as their application to mineral prospecting and permafrost delineation.	Theoretical researches in plantary boundary layers with mathematical models in the infra-struture of Prandtl, Ekman and geostrophic layers.
FIELDWORK LOCATION:		Northern Saskatchewan; Svalbard	
KEY WORDS:	oil spills, combustion, smoke	geoelectromagnetic fields, mineral prospecting	Prandtl, Ekman

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FAX:	(613)957-1089	(403)	(613)952-8987
SUB-DISCIPLINES:	Environmental radiation	Space physics	Geophysics
DESCRIPTION OF WORK:	Radiation monitoring in the Arctic; transfer of radionuclides through the food chain; assessment of radiation doses to people.	Auroral physics (study of auroras and auroral X-Rays, conjugate magnetosphere, Van Allen radiation belts, geomagnetism, ionospheric physics, cosmic rays, climate solar cycle variations, solar terrestrial phenomena.	Marine geophysics, gravity interpretation, monitoring polar ice cap elevations, history of polar geoscience exploration.
FIELDWORK LOCATION:	N.W.T.; Yukon		Arctic Ocean, Canadian Arctic ice caps
KEY WORDS:	radiation, radioactivity, radiocesium, uranium	auroras, magnetosphere, geomagnetism, ionosphere, radiation belts	polar ice caps, exploration

POLITICAL SCIENCE -- SCIENCES POLITIQUES

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SUB-DISCIPLINES:	Political economy, government, education and training	International politics, resource management	Political development, public policy
DESCRIPTION OF WORK:	Native economic development; native administration; federal policy.	Canadian policy (scientific, environmental, political, strategic, economic) toward polar regions, including arctic-antarctic interconnections.	Economic development policy; political devolution and constitutional change; aboriginal claims.
FIELDWORK LOCATION:			N.W.T.; Yukon
KEY WORDS:	politics, economics, training, native	arctic policy, antarctic policy	economic development, political devolution, aboriginal claims

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FAX:	(403)492-7196	(403)394-4120	(604)564-3777
SUB-DISCIPLINES:	Constitutional development, political development, aboriginal politics		
DESCRIPTION OF WORK:	Constitutional and political development of the Yukon and N.W.T. with particular reference to aboriginal claims, self-government, federal-territorial relations, the form of public government in the territories, the process of devolution, the possible creation of Nunavut; studying circumpolar cooperation.	Political lobby group; wildlife management	Devolution of health care services to the Yukon and N.W.T.; devolution, regionalism and division.
FIELDWORK LOCATION:	Yukon; N.W.T.	Fort Resolution, N.W.T.	Yellowknife; Whitehorse
KEY WORDS:	devolution, political	wildlife management	health, devolution, division

PSYCHOLOGY -- PSYCHOLOGIE

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SUB-DISCIPLINES:		Cross-cultural psychology	Medical anthropology, psychological anthropology
DESCRIPTION OF WORK:	Studies of arctic survival.	1. Effects of culture contact on health of indigenous peoples of circumpolar region. 2. Cognitive abilities understood in indigenous terms for use in evolving school system.	Recent social, economic, demographic change in Arctic; adolescent development; conflict and aggression management; seasonal variation and human behavioural and biological adaptation; ethnohistorical research.
FIELDWORK LOCATION:		various	Holman, N.W.T.
KEY WORDS:	ergonomics, survival	acculturation, health, indigenous, cognition	adolescence, social change, seasonality

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SUB-DISCIPLINES:	Cross-cultural cognitive psychology	Clinical psychology, forensic psychology	Social psychology, human dimensions of sustainable development
DESCRIPTION OF WORK:	Studies of differences in cognitive style for Inuit and Cree; contextualization and differentiation integration as thought styles among Inuit and Cree.	Evaluation of treatment for violent, mentally disordered patients. Identifying the aetiology of violence among the mentally disordered.	Formation and structure of attitudes and stereotypes environmental attitudes and values models of "Northern Psychology".
FIELDWORK LOCATION:	Big Trout, Ontario		
KEY WORDS:	cross-cultural, cognitive psychology, Inuit, Cree	crime and mental disorder	Northern Psychology, sustainable development, environment values

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SUB-DISCIPLINES:	Culture specific counselling and culture specific training	Polar psychology, social psychology, environmental psychology	Experimental, human factors
DESCRIPTION OF WORK:	Investigating traditional helping/counselling approaches among the Inuit. Identifying differences on helping/counselling between Inuit and white cultures. Developing training programs and incorporating these tradition techniques.	The nature of work is based on the study of human responses under conditions of social and physical isolation and confinement. Levels of analyses are personnel selection, the training and the assistance and support of personnel to be working in advanced military or scientific posts, construction and mining camps, on-off shore installations and remote communities.	Effect of lighting, temperature, noise on human fatigue.
FIELDWORK LOCATION:	Kitikmeot, Baffin Island	Canadian sub and high Arctic; oil rigs in the Labrador coast	
KEY WORDS:	Counselling, training, culture-specific	polar psychology, isolation of groups, psychology, non-indigenous work groups, social adaptive and maladaptive behaviours	environment, fatigue, work

	Ritchie, Dr. Pierre L.J. Ecole de Psychologie Université D' Ottawa, 11 Marie Carrie Ottawa, ON, Canada K1N 6N5	Suedfeld, Dr. Peter Department of Psychology University of British Columbia Vancouver, BC, Canada V6T 1Y7
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FAX:	(819)827-4639	(604)228-6923
SUB-DISCIPLINES:	Clinical psychology, community psychology	Environmental psychology
DESCRIPTION OF WORK:	Development/management of psychological health services/mental health programmes to rural/remote regions.	Studies of adaptation to polar work (isolation, confinement, stimulus restriction, stress, adverse natural environment) on the part of crew members in the Arctic and Antarctic; currently coordinating Polar Psychology Project, involving international and cross-polar personality measurement of crew members.
FIELDWORK LOCATION:		Isachsen, N.W.T.; Canadian High Arctic weather stations; Argentine Antarctic stations
KEY WORDS:	Health, mental health, psychological services	human adaptation, isolation, stress, stimulus restriction

SOCIOLOGY -- SOCIOLOGIE

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SUB-DISCIPLINES:	Urban and regional planning	Development, social change, ethnic relations	Native and northern studies
DESCRIPTION OF WORK:	Research into: reasons why students in N.W.T. are at risk of dropping out of school; implications of the Federal Goods and Services Tax on territorial municipalities.	Sociology of developments; native studies-land claims, political activities; demography of the north; social impact assessment.	Research into native rights in Canada, particularly as applied in the Canadian North.
FIELDWORK LOCATION:	N.W.T.; Yukon	Northern Canada	Western Arctic
KEY WORDS:	schooling, GST, municipalities	social impact assessment, ethnic relations, native studies	aboriginal rights, extinguishment, resource development

	Paraschak, Dr. Victoria A. Department of Kinesiology University of Windsor Windsor, ON, Canada N9B 3P4	Poushinsky, Dr. Nicholas W. 11 Chalet Crescent Whitehorse, YT, Canada Y1A 3H2	Rozon, Mr. Gordon M. 2202, 140-10 Ave, S.W. Calgary, AB, Canada T2R 0A3
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FAX:	(519)973-7058	(403)667-3518	(403)262-6566
SUB-DISCIPLINES:	Sociology of sport, history of sport	Social policy, sociology of development	Socio-economic planning, impact assessment and strategic planning
DESCRIPTION OF WORK:	Examination of government policies and programs for sport, recreation and traditional games and how N.W.T. communities and sport agencies access such programs; examination of cultural formation and particularly the ways that sport practices, reproduce or challenge eurocanadian forms of sport and existing face and gender relations in N.W.T. society.	Assessment of competing social and economic formations in the context of alternative development options; social policy formulation in the north; northern health status.	Community based attitudinal research; strategic/policy planning assignments on alcohol/drug programming, devolution and resource managment.
FIELDWORK LOCATION:	N.W.T.	Yukon	Mackenzie Valley; Beaufort Sea; Yukon; Alaska
KEY WORDS:	traditional physical activities, Inuit, Dene, government policy	alternative development	socio-economic impact assessment, resource management

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SUB-DISCIPLINES: Socio-economic impact assessment and management

DESCRIPTION OF WORK: Long distance commuting in the mining industry, mining and northern development.

FIELDWORK LOCATION: Little Cornwallis Island; Contwoyto Lake, N.W.T.

KEY WORDS: mining, commuting, northern development, socio-economic impacts

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STRATEGIC STUDIES -- ÉTUDES STRATÉGIQUES

	Critchley, Dr. Harriet W. Strategic Studies Program Univ. of Calgary, 11th Floor Library Twr., 2500 University NW Calgary, AB, Canada T2N 1N4	Graham, Dr. Gerald F. 70 Third Avenue Ottawa, ON, Canada K1S 2J8	Lindsey, Dr. George R. 55 Westward Way Ottawa, ON, Canada K1L 5A8
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FAX:	(403)282-4773	(613)233-0909	(613)
SUB-DISCIPLINES:		Scientific cooperation, global change	
DESCRIPTION OF WORK:	Monitoring developments in circumpolar relations, in the domestic politics and economic developments of all the arctic littoral states, and in naval doctrine and deployments in Arctic waters; the major research effort will continue to shift to space surveillance and space-based communications in the arctic region.	Institutional mechanisms for scientific and environmental cooperation in the Arctic; monitoring the newly established International Arctic Science Committee(IASC) and the Finnish Initiative for the protection of the Arctic Environment; monitoring of current moves to draft a treaty on protection of the Antarctic environment.	Strategic significance of the Arctic region; military and intervention relationships in the polar regions.
FIELDWORK LOCATION:			
KEY WORDS:	naval doctrine, space, surveillance, communications	cooperation, international agreements	security, defence, surveillance

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